PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE Attorney Docket No. 05-500-B

in re App	olication of:)	
Ju	ung Hee Park	j	Examiner: TBA
	onal Application N	No.: PCT/KR05/00133) 10/585,586)	Group Art Unit: TBA
0.0. дрр	incation No	10/303,300	Confirmation No.: 4450
Internation U.S. Filir	onal Filing Date: ng Date:	January 14, 2005) July 11, 2006)	
For:	ATM Switche Transmitting	d Router For) IP Packet Data	

Mail Stop PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

PETITION UNDER 37 C.F.R. § 1.47(b) BY PERSON HAVING PROPRIETARY INTEREST TO FILE APPLICATION ON BEHALF OF INVENTOR WHO WE HAVE BEEN UNABLE TO LOCATE

Dear Sir:

Pursuant to 37 C.F.R. § 1.47(b), UTStarcom, Inc., the owner of *UTStarcom Korea Limited*, and the assignee in fact of the above-identified patent application, submits this Petition and respectfully requests the U.S. Patent Office to allow UTStarcom, Inc, to make the Application on behalf of inventor Jung Hee PARK who we have been unable to locate.

This Petition is being submitted with:

- (i) Declaration and Power of Attorney signed by Robert J. Irvine, III, a person authorized by UTStarcom, Inc to sign on its behalf;
- (ii) Statement Establishing Proprietary Interest By Person Signing on Behalf of Nonsigning Inventor and Statement Under 37 C.F.R. § 3.73(b);

06/19/2007 MKAYPAGH 00000095 10585586

01 FC:1463

200.00 OP

- (iii) Declaration in Support of Petition Under 37 CFR 1.47(b) By Person Having Proprietary Interest to File Application on Behalf of Inventor, signed by Joo-Young Kim;
- (iv) Memorandum of Law in Support of Petition Under 37 CFR 1.47(b) By

 Person Having Proprietary Interest to File Application on Behalf of Inventor,
 including exhibits, signed by Joo-Young Kim; and
- (v) Declaration in Support of Petition Under 37 CFR 1.47(b) By Person Having Proprietary Interest to File Application on Behalf of a Nonsigning Inventor, including exhibits, signed by Jiwon Lim.

The last known address of inventor Jung Hee PARK, who is a citizen of Korea, is:

San 136-1 Ami-ri, Bubal-eub Icheon-si, Gyeonggi-do 467-860 Republic of Korea

UTStarcom, Inc. respectfully submits that it has been unable to locate inventor Jung Hee PARK. Every attempt to obtain Jung Hee PARK's signature has been unsuccessful. As evidenced by the accompanying declaration of Jiwon Lim, continuous and diligent efforts have been made to obtain Jung Hee PARK's signature on declarations for this case. Based on such diligent efforts to obtain Jung Hee PARK's signature on the declaration for this case, and based on the fact that, even without Mr. PARK's signature, UTStarcom, Inc. is the owner of the present application, as demonstrated by Joo-Young Kim's Memorandum of Law in Support of Petition Under 37 CFR 1.47(b) By Person Having Proprietary Interest to File Application on Behalf of Inventor and Joo-Young Kim's Declaration in Support of Petition Under 37 CFR 1.47(b) By Person Having Proprietary Interest to File Application on Behalf of Inventor (attached), we believe that the requirements of 37 C.F.R. § 1.47(b) and MPEP § 409.03 have been met.

Filing of the application without Oath or Declaration executed by Jung Hee PARK is necessary to preserve the rights of Applicant UTStarcom, Inc. Applicant UTStarcom, Inc. will suffer irreparable harm if not allowed to apply for a patent for the above-referenced

Application because the United States Patent and Trademark Office will hold the present Application abandoned if it is without an executed Oath or Declaration.

This Petition is being submitted with the fee set forth in 37 C.F.R. § 1.17(g), which is currently set at \$ 200.00.

Respectfully submitted,

Date: June 15, 2007

Robert J. Irvine, III Reg. No. 41,865

McDonnell Boehnen Hulbert & Berghoff LLP

300 South Wacker Drive, Ste. 3100

Chicago, II 60606 Tel: 312 913 – 0001

Fax: 312 913 – 0002

Case No.: 05-500-B

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION FILED UNDER 37 CFR 1.47(b) and USC §118

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

ATM SWITCHED ROUTER FOR TRANSMITTING IP PACKET DATA

the specification of which is attached hereto unless the following space is checked:

was filed on July 11, 2006 as United States Application Serial Number 10/585,586.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56 (including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application).

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s):

	<u>Number</u>	Country	Day/Month/Year Filed
1.	PCT/KR2005/00133	PCT	14 January 2005
2.	10-2004-002981	Korea	15 January 2004

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

<u>Application Number</u> <u>Filing Date</u>

1.

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or § 365(c) of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

Application Number

Filing Date

1.

I hereby appoint the practitioners associated with the Customer Number provided below to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and I direct that all correspondence be addressed to that Customer Number.

Customer Number: 020306	
Principal attorney or agent:	Robert J. Irvine, III

Telephone number: 312-913-0001

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first inventor: Jung Hee PARK

Residence: San 136-1, Ami-ri, Bubal-eub, Icheon-si, Gyeonggi-do 467,860, Republic of Korea

Citizenship: Republic of Korea

Post Office Address: San 136-1, Ami-ri, Bubal-eub, Icheon-si, Gyeonggi-do 467,860, Republic of Korea

I, Robert J. Irvine, III hereby declare the following:

- 1. I am a citizen of the United States of America, residing at 719 Sigmund Road, Naperville, IL 60563.
- 2. I am authorized by the assignee, UTSTARCOM KOREA LIMITED, for whom I am an attorney, to sign this declaration on its behalf.
- 3. By virtue of this proprietary interest, I sign this declaration on behalf of and as agent for Jung Hee Park, the inventor who has refused to sign.
- 4. Upon information and belief, I aver the named inventor or inventors to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought.
- 5. Upon information and believe, I aver those facts that the inventor is required to state.

Robert J. Irvine III

Date: June 15, 2007

PATENT

UNITED STATES PATENT AND TRADEMARK OFFICE

(Attorney Dock	et No. 05-500-B)
n re Application of:)
Jung Hee Park) Examiner: TBA
International Application No.: PCT/KR2005/00 J.S. Application No.: 10/585,586 International Filing Date: January 14, 2005 J.S. Filing Date: July 11, 2006) 133) Group Art Unit: TBA)) Confirmation No. 4450)
For: ATM Switched Router For Transmitting IP Packet Data)))

Mail Stop Missing Parts Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

4

STATEMENT ESTABLISHING PROPRIETARY INTEREST BY PERSON SIGNING ON BEHALF OF NONSIGNING INVENTOR AND STATEMENT UNDER 37 C.F.R. § 3.73(B)

UTStarcom, Inc. has a sole proprietary interest in the present application. The invention was originally assigned by inventor to Hyundai Syscomm on November 30, 2002, as part of Hyundai Syscomm's employee invention compensation policy, and was filed as Korean National Application Number 2004-0002981 (Exhibit A). On April 27, 2004, UTStarcom, Inc., through its wholly owned subsidiary in Korea, UTStarcom Korea Limited, acquired Hyundai Syscomm's Intellectual Property Portfolio, including the rights to the above-referenced application, corresponding to Korean National Application Number 2004-0002981 (Exhibit B, page 46 of 46, entry number 1324). I establish this proprietary interest by attaching a copy of the assignment of this invention by the nonsigning inventor to Hyundai Syscomm, Inc. as recorded with the U.S. Patent and Trademark Office, and a copy of the

assignment of this invention by Hyundai Syscomm, Inc. to UTStarcom Korea Limited as recorded in the Patent and Trademark Office (Exhibit B). As such, UTStarcom, Inc. is presently the assignee and owner of the rights to the above-referenced application.

This STATEMENT ESTABLISHING PROPRIETARY INTEREST BY PERSON SIGNING ON BEHALF OF NONSIGNING INVENTOR is made by Robert J. Irvine, III, a person authorized to act on behalf assignee UTStarcom, Inc.

Respectfully submitted,

Date: <u>June 15, 2007</u>

Robert J. Irvine, III

Registration No.: 41,865

McDonnell Boehnen Hulbert & Berghoff LLP

300 South Wacker Drive, Ste. 3100

Chicago, II 60606 Tel: 312 913 - 0001 Fax: 312 913 - 0002

EXHIBIT A



UNITED STATES PATENT AND TRADEMARK OFFICE



Facsimile Transmission

To:

Name:

MCDONNELL BOEHNEN HULBERT & BERGHOFF LLP

Company:

300 S. WACKER DR., STE. 3100 13129130002

Fax Number:

Voice Phone:

From:

Name:

ASSIGNMENT SERVICES BRANCH

Voice Phone:

571-272-3350

37 C.F.R. 1.6 sets forth the types of correspondence that can be communicated to the Patent and Trademark Office via facsimile transmissions. Applicants are advised to use the certificate of facsimile transmission procedures when submitting a reply to a non-final or final Office action by facsimile (37 CFR 1.8(a)).

Fax Notes:

Pg# Description

Cover Page

32.TXT

Document 1, Batch 956023

USPTO ASSIGNMENT SYSTEM PROCESSING

Date and time of transmission: Friday, June 15, 2007 2:17:08 PM

Number of pages including this cover sheet: 05

USPTO 6/15/2007 2:17:30 PM PAGE 2/005 Fax Server

:MCDONNELL BOEHNEN HULBERT & BERGHOFF LLP COMPANY:300 S. WACKER DR., STE. 3



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

JUNE 15, 2007

PTAS

500296830A

MCDONNELL BOEHNEN HULBERT & BERGHOFF LLP 300 S. WACKER DR., STE. 3100

ROBERT J. IRVINE CHICAGO, IL 60606

* 500296830A*

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 06/15/2007 REEL/FRAME: 019435/0752 NUMBER OF PAGES: 14

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS). DOCKET NUMBER: 05-500-B

ASSIGNOR:

PARK, JUNG HEE DOC DATE: 11/27/2002

ASSIGNEE:

HYUNDAI SYSCOMM, INC. SAN 136-1, AMI-RI, BUBAL-EUB, ICHEON-SI

GYEONGGI-DO, REPUBLIC OF KOREA

467-701

SERIAL NUMBER: 10585586 FILING DATE: PATENT NUMBER: ISSUE DATE:

TITLE: ATM SWITCHED ROUTER FOR TRANSMITTING IP PACKET DATA

, USPTO 6/15/2007 2:17:30 PM PAGE 3/005 Fax Server :MCDONNELL BOEHNEN HULBERT & BERGHOFF LLP COMPANY:300 S. WACKER DR., STE. 3

019435/0752 PAGE 2

ASSIGNMENT SERVICES BRANCH PUBLIC RECORDS DIVISION

USPTO 6/15/2007 2:17:30 PM PAGE

4/005

Fax Server

:MCDONNELL BOEHNEN HULBERT & BERGHOFF LLP COMPANY:300 S. WACKER DR., STE. 3

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1 06/15/2007 500296830

SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
L. V	11/27/2002

RECEIVING PARTY DATA

Name:	Hyundai Syscomm, Inc.
Street Address:	San 136-1, Ami-ri, Bubal-eub, Icheon-si
City:	Gyeonggi-do
State/Country:	KOREA, REPUBLIC OF
Postal Code:	467-701

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	10585586

CORRESPONDENCE DATA

Fax Number:

(312)913-0002

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone:

312-913-0001

Email:

docketing@mbhb.com

Correspondent Name:

McDonnell Boehnen Hulbert & Berghoff LLP

Address Line 1:

300 S. Wacker Dr., Ste. 3100

Address Line 2:

Robert J. Irvine

Address Line 4:

Chicago, ILLINOIS 60606

ATTORNEY DOCKET NUMBER:

05-500-B

NAME OF SUBMITTER:

Robert J. Irvine

Total Attachments: 12

source=05-500-B-Inv_to_Hyundai_Assignment#page1.tif source=05-500-B-Inv_to_Hyundai_Assignment#page2.tif source=05-500-B-Inv_to_Hyundai_Assignment#page3.tif

USPTO 6/15/2007 2:17:30 PM PAGE 5/005 Fax Server

:MCDONNELL BOEHNEN HULBERT & BERGHOFF LLP COMPANY:300 S. WACKER DR., STE. 3

source=05-500-B-Inv_to_Hyundai_Assignment#page4.tif source=05-500-B-Inv_to_Hyundai_Assignment#page5.tif source=05-500-B-Inv_to_Hyundai_Assignment#page6.tif source=05-500-B-Inv_to_Hyundai_Assignment#page7.tif source=05-500-B-Inv_to_Hyundai_Assignment#page8.tif source=05-500-B-Inv_to_Hyundai_Assignment#page9.tif source=05-500-B-Inv_to_Hyundai_Assignment#page10.tif source=05-500-B-Inv_to_Hyundai_Assignment#page11.tif source=05-500-B-Inv_to_Hyundai_Assignment#page12.tif

Note

7	IV	717		1919										Co	onfidential
]	Employ	/ee'	s D	ec	la	ratio	n	of	Inver		· . N	20 2002
			, 		т .				1			T		te: Novembe	
			Work Cod	je		roving	1_	<u>a</u>					Work		Approving
	- a	:			Autn	ority	اما	2	Reviewe	r		व्	Code	 	Authority
ean	Approval		Primary Inventor	I KAVIAWAP	Appro	ved by	151	intenar Team			圓	Approval	Drafter	Reviewer	Approved by
Invention Team		:	Signed	-	Sigi	ned	On-the-job	le		E	Patent Team	<	signed	signed	signed
vent	Positio Nam		SW/Jung I PARK	lec	CJ/JEO S.H.)NG	7	≧	/		aten	Position / Name	SW/LEE, Chun Mi	DL/YOON, Hyoung Jin	
	Dat		Nov.27		Nov	v. 30		Con	trol No.		<u></u> -,	Date			
	Years Stora		0,	, 1, 2, 3, 5, 10, Perr	manent							Years in Storage	1, 3, 5, 10, P	Security Rating	1, 2, 3, Confidential
Under the provisions of the employee's invention compensation policy, I request to proceed with the filing/registration of my invention at its rights for domestic and international registrations.								and to assign							
HS FIE	this tor	Contre	Jai una one	Phational registr	ations,					~~~~			 		
		itle of Invent		Function to test II	² packet t	transmis	sion	betwee	en HAMS	-5 swit	tched	l routers by me	ans of ENLA	and IFCA	
Summary of the Invention The present invention provides the following functions: 1. To test if data transmission/reception functions of ENLA and IFCA are normally operated between HAMS-5 strouters; 2. To transmit IP packets when IFCA-ENLA and ENLA-IFCA links are set up between systems; and, 3. To transmit IP packets when ENLA-IFCA-SOLA and SOLA-IFCA-ENLA links are set up between systems.									S-5 switched						
avent		e(s) of Projec	Related cts	Development of I	•										
by Ir	Sta	atus o	f the	□ Conception ■	■ Compl-	eted De	sign	(ì r	ı, Complete	d) Test	ting	(Preparing	, In) Business	Implementation	n
Statement by Inventor		ation :	Status of ntion	☑ Unpublished ※ If checked, ple [(Scheduled) Date		ify the ((sched	duled) (be Published date of publidissertations	lication	n and		shed Earlier x ations.		
lat				Korean											
S	F	Prior A	Art	Foreign											
				☑ Standard					Reason for	Urger	nt				
	Fi	iling T	erm	☐ Urgent → (Wit	hin	day	/s)		Filia		<u> </u>				
	For	reign I	Filing	☐ Yes (Reason:) 🗷 No		
	K	Key W	ord										, , , , , , , , , , , , , , , , , , , 		
	Dat	e of R	eceipt	November 30,	2002	<i>I</i>	Agent		Phoenix	-	iŧ	Hyundai Syscomm R		CM2002-12-0)064
٦			C-132	☐ Patent ☐ Util			oumai	l of Te			e				
Statement by Patent Team	NO.	rean F	·iling [Request for Examination	- 1	□Yes	⊠ N	٧o		tegic P		nt Project ention		23	
tent	For	reign I	Calina	□ Ye	es C	⊃ No				Filing	g Rat	ting		В	
Pa	10.	tigii a	, ming	Deliberation		Y	Yes		No		*1	Remarks for A	gents writing	g the specificat	ion*
t p	9		☐ Direct N	ational Filing	□ EPO F	Filing		PCT F	iling			tic filing witho			
len l	iries	İst	t Priority		5th	Priority						tic filing after l ancous Korcan			
te l	Count	2nd	d Priority		6th	Priority					0	K			
Sta	Designating Countries to File	3rd	1 Priority		7th	Priority	\bot			ver's	1				
	igna	4th	Priority		8th	Priority	\perp			Reviewer's Opinion					
l	Se		Note						Ì	& ~					

	< Evaluation o	f the Invention>			
	Category	Contents		Eva	luation Grade
		Simple technology			□ 1 point
	Technology	Slightly higher technology		☐ 3 point	
		Advanced technology	☐ 5 point		
		Theoretically possible to implement, but has no plan for testing		□ 1 point	
	Possible	Developments in related technologies are required first for testing		☐ 2 point	
	Implementation	Currently testing or planning to test			☐ 3 point
		Tested and obtained satisfactory results (Attach Documents)			☐ 5 point
		Preparing or currently implementing into one's business			☑ 7 point
	Effects		□ 3	図 2 □ 1 point	
am		Defending the rights in disclosing the technology			☐ 1 point
1 Te	Importance	Adaptable (or scheduled) for mass production			■ 3 point
tior				☐ 5 point	
Nen		Evaluation Result ention Evaluation form must be filled out by the manager of the inv			(15)Point
Statement by Manager of Invention Team	Impleme * The Eva	e is necessary for those inventions that are rated 5 or 7 points in the entation." luation Result should be filled in only after completing the Evaluation Foreign Filing>		of "Poss	ibility for
þ	Status of	* Applied Product:	* For	or cases applied to multiple	
nent	products to which the	* Related Technology:	produ	cts, list a	Il product names. s to be applied,
tater	invention was applied	* Applied Period:	the estimated period.		
192 2		_	D	Designation of Countries	
		☐ Absolutely necessary ☐ Observe for a year after filing domestically	1st P	riority	
		□ Not necessary	2nd I	Priority	
			3rd F	riority	
		☐ Direct National Filing ☐ EPO Filing ☐ PCT Filing	4th F	riority	
			5th P	riority	
	Evaluation	Technological Factor	6th P	riority	
			7th P	riority	
			8th P	riority	
		Economical Factor			aluator
			Name Positi Signa	on:	

	tor		(Korean) 박 정 회			(S/W) D	evelopment	Group (Ne	twork) Team	
	Primary Inventor	Name	(Chinese) 朴 正 禧			Position SW		Employee ID No. H26771		Tel (8040)	
			(English) Park Jung He	e	R	lesiden	ce ID	7	40320-1222	2320	
		E-mail	mirine@hysyscomm.com	Add	ress		6-1, Ami-1 ggi-do 467	ri, Bubal-eub, Id 7-701	cheon-si,	Signature	signed
			(Korean)			()	Developmen	it Group () Tear	m
		Name	(Chinese)		Posi	tion		Employee ID No.		Tel ()
			(English)		Resi	dence l	ID .		-		%
		E-mail		Addr	ess					Signature	
			(Korean)			()	Developmen	it Group () Tear	m
		Name	(Chinese)			tion		Employee ID No.		Tel ()
Inventor Information			(English)		Resi	dence l	D				%
form		E-mail		Addr	ress					Signature	
tor Ir	ŗ	Name	(Korean)			()	t Group () Team		
Inven	Joint Inventor		(Chinese)			tion			Tel ()	
	int Ir		(English)		Resi	dence I	D				%
	Jo	E-mail		Addr	ess					Signature	
			(Korean)			()	Developmen	t Group () Tear	n
		Name	(Chinese)		Position Employee ID No.					Tel ()
			(English)		Residence ID						%
		E-mail		Addr	ess					Signature	
			(Korean)			()	Developmen	t Group () Tear	n
		Name	(Chinese)		Posi	tion		Employe ID No.	e	Tel ()
			(English)		Resi	dence I	D				%
		E-mail		Addr	ess					Signature	

Note: The full address and e-mail address are required.
 Write the full name in English.

社 外 秘

합부 등 변경을					직무	발명	 명	신고	서		시고	61 · 20021	년 11원 200
발 경 수 명 전			업무코드		승인권	자 월		216				2 . 2002	
입	발	1	주발명자	검토	팀장	장		85	법		기인	, 검토	승인
실	명	재	-4-		3/2	티			특	재		MARI	
보호반 0.1,2,3,5,10,87 보호반 1,3,5,10,87 보호반 1,2,3,5,10,87 보호반 1,2,3,5,10,10,10,10,10,10,10,10,10,10,10,10,10,	l	작위/성명	사원/박정희	/	차장/정성	^{1현} 사		/		직위/성명	wolter	PL TOAY	4
# ## ## ## ## ## ## ## ## ## ## ## ## #	월		11/30	l'	<u> </u>		관리	번호	┭	<u> </u>			
발명의 명칭 HAMS-5 switched Router 간에 ENLA, IFCA를 통한 IP Packet 전송 시험 기능 1. HAMS-5 switched router를 통한 ENLA, IFCA간 데이터 전송, 수신 기능이 정상적으로 수행되는지의 기능. 2. 시스템간 IFCA-ENLA <→ SNLA-IFCA 연결시 IP Packet 전송기능. 3. 시스템간 ENLA-IFCA-SOLA <→ SNLA-IFCA-ENLA 연결시 IP Packet 전송기능. 4. 시스템간 ENLA-IFCA-SOLA <→ SNLA-IFCA-ENLA 연결시 IP Packet 전송기능. □ 관련PROJECT영 HAMS-5 switched router 개발 관련PROJECT영 HAMS-5 switched router 개발 관련PROJECT영 HAMS-5 switched router 개발 본발명의 발표상황 □ 학관 메정인 경우 발표(예정)일과 관련논문등 기입 요망 [발표(예정)일과 관련본문등 기입 요망 [발표(예정)일과 관련본문등 기입 요망 [발표(예정)일과 관련본문등 기입 요망 [발표(예정)일과 관련본문등 기입 요망 [발표(예정)일과 관련본문을 기입 요망 [발표		1											
1. HAMS-5 switched router 를 통한 ENLA, IFCA간 데이터 전송,수신 기능이 정상적으로 수행되는지의 기능. 2. 시스템간 IFCA-ENLA <> ENLA-IFCA 연결시 IP Packet 전송기능. 3. 시스템간 ENLA-IFCA-SOLA <> SOLA-IFCA-ENLA 연결시 IP Packet 전송기능. 건설무이JECT명		T											
장상적으로 수행되는지의 기능. 2. 시스템간 IFCA-ENLA <→ ENLA-IFCA 연결시 IP Packet 전송기능. 3. 시스템간 ENCA-IFCA-SOLA <→ SOLA-IFCA-ENLA 연결시 IP Packet 전송기능. 3. 시스템간 ENCA-IFCA-SOLA <→ SOLA-IFCA-ENLA 연결시 IP Packet 전송기능. 관련PROJECT영 HAMS-5 switched router 개발 실시 상 형 □ 착상 ■설계완료 □ 시험(중,완료) □ 사업화(준비중,실시중) 본발명의 발표상황 ■ 미발표 □ 발표예정 □ 旣발표 ※旣발표 또는 발표 예정인 경우 발표(예정)일과 관련논문등 기일 요망 [발표(예정)일:2000년 월 일. 관련논문:] 전행특허자라 전 대 외국 출원완급 □ 보 등 □ 지급증원 □ 자 급 → 기 □ 유 □ 무 출원보류(이유:) 지급용원 □ 유 □ 무 출원보류(이유:) 의국출원 □ 유 □ 무 출원등급 ▷ 의 의 보관 등이용원 □ 국내출원 □ 국내출원 □ 유 □ 무 상의여부 □ 유 □ 무 상대리인 특허명세서작성 참조시항* 출 □ 개별국출원 □ EPO출원 □ PCT출원 □ 자무소 자체 국내출원 ▽ 특허림검토후 국내출원 □ 순위 □ 국내회 동시출원 □ 국내회 중시출원 □ 국내회 □ 국		발명:	의 명칭 							-			_
전 관련PROJECT의		발명	의 개요	정상 ² 2. 시스턴 3. 시스턴	력으로 수 발간 IFCA 발간 ENLA	·행되는지 \-ENLA <-:	의 기 > ENL	능. A-IFCA 2	별길시	IP Pack	et 전송:	기능.	:0I
Time		관련PP	ROJECT명		a divid € €								
# 본탈명의 발표상황	וכ	실 시	상 황	□ 착상									
선행특허자관	사	4	_	※旣발표		! 경의	우 발표(여	정)일					
출원한급		선행특	허자료										-
KEY WORD SUDJETT No. SUDJET No.		출원	완급						1				
대		외국	출원										
법 제 등		KEY	WORD										
전		접	수 일			대리인	12	TULL		전담자관	리번호 (Moor	12-0064.
전	법	국내	출원										
전	제					~~~~	무				_		
부 출 □ 개별국출원 □ FPO출원 □ PCT출원 □ 사무소 자체 국내출원 1 특허팀검토후 국내출원 기자 1순위 5순위 □ 국내외 동시출원 가 3순위 7순위 달 선 4순위 8순위 의	특	외국	출원								1		· · · · · · · · · · · · · · · · · · ·
기 원 1순위 5순위 그국내외 동시출원 자 구 2순위 6순위 검 사 항 선 4순위 8순위 의	부	÷ ,	7 711 144 77	***************************************									
지				별권 U 년 		U PCI 登记	전				⊍ Ⅳ 특	허팀검토취	국내출원
사항 가 3순위 7순위 토 선 4순위 8순위 의										출원			
항 선 4순위 8순위 의		'	·					יט ן	-				
			-										
│ : 【정】비고│					0ETI			견					}

ETT CHESTAL BESIDES CAR

社 外 秘

	< 발명	명가내용 >					
	구 분	내 용	Ę	명가점수			
		단순 조합 기술임		□ 1점			
	기 술 성	약간 높은 수준을 요하는 기술임		면 3점			
		고도의 수준을 요하는 기술암		□ 5점			
		이론상 실현은 가능하나, 실험계획은 없슴		□ 1점			
		테스트 하려면 관련기술의 발전이 요구됨		□ 2점			
	실현가능성	테스트중이거나 예정임		□ 3점			
		양호한 테스트 결과 얻음(자료첨부 가능)		□ 5점			
		현재 사업화 준비중 또는 실시중임		· 7점			
발	 효 과	개선된 효과의 수준은?		☑ 2점 🛭 1점			
할 명 길	H 14	(공정 단순화, Yield, Cost 등의 측면)	니 3삼 (☑ 2점 □ 1점			
실		기술공개로 타사 권리확보를 방어하는 수준임	(] 1점			
장	발명중요도	양산에 적용(예정) 가능한 발명임	1	2 3점			
וכ		반드시 필요한 독점 기술임	[] 5점			
재 사	·	평가결과 대학교	. (/() 점			
항	주)※상기	l 발명 평가표는 반드시 실장이 직접 기재하시기 바랍L	JCI.				
		현가능성"란에서 5점,7점에 해당된 발명은 증빙 자료가		요 합니다.			
	# 평기	h를 완료하신후 평가결과를 기입 바랍니다.					
	< 외국출	원 평가내용 >					
	발명의	*적용제품:	*복수제품에 적용되는 경우 전부				
	적용제품	*관련기술:	기재하시기 바라며, 향후 적용				
	현 황	*적용시기:	제품경우 여	상시점을 기재요망			
		□ 절대 필요	출원	원희망국가			
		□ 국내출원후 1년간 관망	1순위				
		□ 필요 없음	2순위				
ļ		□ 개별국출원, □ EPO출원, □ PCT출원	3순위				
		<u>기술적측면</u>	4순위				
			5순위				
	סווור אז			•			
	평가내용		6순위				
- 1	경기내용		6순위 7순위				
	ਰਮਪਤ						
·	8기대용	<u>경제적측면</u>	7순위 8순위	평가자			
·	경기내용	<u>경제적측면</u>	7순위 8순위 성명:	평가자			
	경기내용	<u>경제적측면</u>	7순위 8순위 성명: 직위:	평가자			
·	경기내용	경제적측면	7순위 8순위 성명:	평가자			

					j. J							社外秘
Ì	발 명 자 1	성명	(한글) 박 정희			(Soft Ware) 개발 Group (네트웍 개발)실						
			(한문) 차 正禧			직위	사원	4	사번	H26771	TEL (8040)
			(영문) Park Jung Hee			주민등록No 740320-1222320				0		
발명자 인제사항		E-mail	mirine@hysyscomm.com	(467-7	01) 경기도 이천시 부발읍 아미리 산 136-1				서 명	M		
	발 명 자 2	성명	(한글)			() 개발 Group ()실	
			(한문)			직위			사번		TEL ()
			(영문)			주민등록No -				•		
		E-mail		주소	(-)		•			서 명	
	발 명 자 3	성명	(한글)			()	개발 (Group ()실
			(한문)			직위			사번		TEL ()
			(영문)			주민	등록No	, .	,	. <u>-</u>		
		E-mail		주소	(-)					서 명	
	발 명 자 4	성명	(한글)			()	개발 (Group ()실
			(한문)			직위			사번		TEL ()
			(영문)			주민동	ē록No			_		
		E-mail		주소	(-)					서 명	
	발 명 자 5	성명	(한글)			()	개발 (Group ()실
			(한문)			직위			사번		TEL ()
			(영문)			주민동	등록No			_		
		E-mail		주소	(-)					서 명	
	발 명 자 6	성명	(한글)	····		()	개발 (iroup ()실
			(한문)			직위			사번		TEL ()
			(영문)			주민동	통록No			-		
		E-mail		주소	(-)					서 명	

^{㈜1.}주소는 상세히 기재하시고, E-mail은 반드시 *회사계정*으로 기재하시기 바람.

^{2.}영문기재시 Fullname을 기재하시기 바람.

발명의 명세서

1. 발명의 명칭

발명의 실질적 내용에 대해 가장 적절히 표현할수 있는 명칭을 간결하고 명확하게 기재하되 약자는 가급적 피해주시기 바람.

HAMS-5 switched router의 IFCA(Ip Forwarding Control Board Assembly)-ENLA(Ethernet Link Board Assembly) <-> ENLAEthernet Link Board Assembly)-IFCA(Ip Forwarding Control Board Assembly) 를 통한 IFCA의 ROUTE기능과 ENLA의 Enternet switching기능에 의한 IP 서비스

2. 발명의 상세한 설명

1)산업상의 이용분야

型 医全球反射 (1965年) 医斯斯斯氏病 (1966年)

발명이 무엇에 관한 것이며,어느 기술분야에 적용되는지를 기재하고,타 기술 분야에서도 활용이 가능하면 그 기술분야도 기재하시기 바람.

- 1. 위 발명은 IP 서비스 기능을 이용한 HAMS-5간의 각 node들 간에 Enternet 서비스를 수행.
- 2. HAMS-5기능들중에 Ethernet서비스를 할 수 있도록 Router사이에 Ethernet관련 서비스에 적용된다.
- 3. Router끼리 Ethernet으로 Path를 설정하지 않고 Atm으로 Path를 연결하여 보다 빠르고 다양한 서비스 제공이 가능하다.

2)종래기술의 설명 및 그 문제점

- *본 발명이 속하는 기술분야에서 본 발명과 연관되는 종래기술이 어떻게 실시되는지 기술적 구성이나 개요를 비교적 상세히 설명하고,그 문제를 기재하기 바람.
- *본 발명과 관련된 참고문헌이나 특허공보가 있으면 문헌명이나 공보번호를 기재하고, 그 자료를 본 명세서에 첨부하시기 바람.

종래의 기술은 ENLA 자체, 또는 IFCA 자체에 대해 기능 시험을 하는 단계였다.

자체 기능도 되지 않는 상황이었고 이와 같은 경우에 ENLA 자체내부 디바이스.

IFCA 내부 디바이스에 대한 검증만 수행한다.

이로 인해 ENLA, IFCA간에 연결되는 경로는 검증하지 못하는 제한이 있다. 그리고 실질적인 Ethernet 서비스 기능을 시험하지 못하는 제약이 있다.

3)종래 문제점을 해결하기 위한 본 발명의 기술적 원리

- *본 발명에서 상기와 같은 기술적 문제점을 어떻게 해결하고 있는지 그 해결책의 요지만을 기재하고, 그 상세한 설명은 다음항에 기재하기 바람.
- *어떤 효과를 지닌 어떤기술을 사용하여 어떤 문제점을 해결하였다는 등
- 1. 종래의 기술적 문제를 해결하기 위해 ENLA. IFCA간의 Atm Path 시험 경로를 구성.
- 2. IFCA, SOLA간의 Atm Path 시험 경로 구성.

就是1987年12日的新年第二日的1986年198日第二日

- 3. MP(Main Processor)에서 네트웍에 대한 정보를 설정하여 IFCA에게 네트웍 정보를 설정.
- 4. ENLA에서 관리 하는 각 Node들의 Mac_Address를 Table로 유지하여 Mac_Switching 기능이 되도록 설정.
- 5. IFCA에서는 ENLA, SOLA와 Atm-Path 연결 설정을 수행하고 네트웍 정보를 구성.
- 6. IFCA 의 Default Routing table을 Sola로 정하여 ATM Path를 통하여 다른 Router로 데이타를 보낼수 있도록 한다.

이를 통해 ENLA-IFCA-SOLA <-> SOLA-IFCA-ENLA 에 이르는 경로에 대한 데이터 전송 기능 수행을 수행한다.

4)본 발명의 구성 및 그 전반적인 동작설명

*본 발명은 본 발명이 속하는 기술분야 또는 연관된 기술분야에 종사하는 기술자라면 누구라도 실시할수 있을 정도로 상세하고도 정확한 표현으로 기재하시기 바람수중 · 그 =

- 1. IFCA(Ip Forwarding Control Board Assembly)
 - 1.1 메인 프로세서(MP)에서 Router간에 Routing정보를 주고 받을 수 있는 Path를 ENLA 가상의 네크웍 정보를 IFCA에 설정.
 - 1.2 ENLA Port에 연결되는 각 Node들의 GateWay를 설정.
 - 1.3 IFCA가 네트웍 정보를 받아 IP Routing할수 있는 서비스 준비를 하고 ENLA Port에 연결되는 각 Node들의 GateWay를 설정한다.
- 2. ENLA(Ethernet Link Board Assembly)
 - 2.1 ENLA에서는 각 node돌로부터 전달되는 Source Mac_Address를 table로 관리한다.
 - 2.2 ENLA에서 관리하는 Mac_Address table은 timer를 두고 들어 오지 않는 node에 대해서는 Table에서 삭제한다.
 - 2.3 ENLA에서는 IFCA가 보내주는 Packet의 Destination Mac_Address를 보고 어느 Port로 보낼지 판단하여 해당 Mac_Address가 등록된 Port로 Packet을 보낸다.
- 3. 기본적인 동작 예.

IFCA, ENLA의 기본적인 setting이 끝났을때

- 3.1 어느 Node에서 다른 Router의 다른 network를 가진 Node와 통신하고자 한다.
- 3.2 처음에 Node에서 연결하고자 하는 Node에게 Packet을 던진다.
- 3.3 이 Packet은 Enla를 타고 Atm-Switch를 타고 IFCA로 들어 간다.
- 3.4 IFCA는 가지고 있는 Routing table을 참조 히여 어디로 보낼지를 결정한다.
- 3.5 IFCA가 다시 ENLA로 보낸 Packet은 다른쪽 Router의 ENLA로 들어 간다.
- 3.6 Atm-Switch를 거쳐 다시 IFCA로 Packet이 전달되고 IFCA에서는 어디로 보낼지 결정한다.
- 3.7 Packet은 IFCA에서 ENLA로 보내게 된다.
- 3.8 ENLA에는 Packet에 있는 destination mac_address를 보고 Mac_Address Table에서 해당 mac_address를 검색한다.
- 3.9 찾은 mac_address에 해당하는 Port로 Packet을 보내게 된다.

4) 항에서 계속

4. Router 간에 Atm Path를 통한 Ethernet 서비스.

计多数分类的 医紫蓝蓝色经验的

- 4.1 LAN Cable을 이용하여 ENLA끼리 연결하는 것이 아니다.
- 4.2 IFCA에서 Atm Path를 Sola와 연결하여 Router간에는 Sola와 Sola로 Atm Path로 연결을 하게된다.
- 4.3 ENLA-IFCA-SOLA <-> SOLA-IFCA-ENLA
- 4.4 초기 보드들이 Setup이 이루어 질때 ENLA, IFCA, SOLA사이의 Atm Path는 default로 잡히게 설정.
- 5. Router간에 Lan-cable연결과 Sola를 통한 Atm Path의 차이.
 - 5.1 Sola를 통한 Atm Path가 Lan-cable을 통한 연결보다 속도가 빠르다.
 - 5.2 5.3에서 나타낸것을 보면 별차이는 없어 보인다. 하지만 ENLA를 거치지 않고 직접 SOLA를 거쳐 IFCA로 가면 중간에 delay를 줄일 수 있다.
 - 5.3

6.

- 5.2.1 Lan-cable을 통한 연결에서 Node상의 경로. Node<->ENLA<->IFCA<->ENLA<->IFCA<->Node
- 5.2.2 Atm Path를 통한 연결에서 Node상의 경로. Node<->ENLA<->IFCA<->SOLA<->IFCA<->ENLA<->Node

. . . .

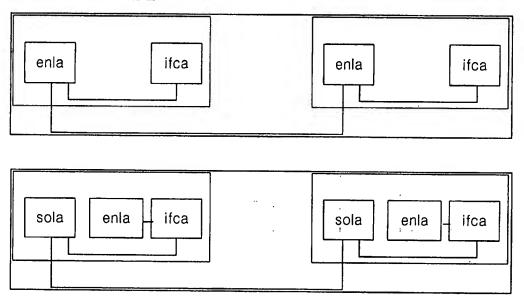
6.1 ENLA에서 4Port를 하나의 네트웍으로 구성할 수 있다.

The second of the second

6.2 ENLA에서 2Port씩 두개의 서브 네트웍으로 구성할 수 있다.

5)본 발명의 다른 실시예

- 4)항에 기재된 본 발명의 주요 실시예 이외에 다른 실시예가 있으면 도면을 도시하고, 그 내용을 실시할 수 있을 정도로 구체화 하여 기재.
- 1. Router간에 Lan cable을 사용하지 않고 Atm Path를 통한 연결을 설정한다. 이렇게 하면 좀 더 속도면에서 향상시킬수 있다.
- 2. Router간 Atm-Path 연결.



6)본 발명의 효과

본 발명과 종래기술과의 구성 및 동작의 차이에서 오는 효과률 구체적으로 기재하고,부수적으로 발생되는 이정도 기재하나,단 기술적인 근거가 없는 막연한 경제적 효과 등은 기재 불필요.

- 1.1 ENLA는 Mac_Switching관련 기능을 수행함으로 기능의 구분및 차후 기능추가의 용이.
- 1.2 IFCA는 Routing관련 기능을 수행함으로 기능의 구분및 차후 기능추가의 용이.
- 1.3 SOLA를 통한 Atm-Path의 연결에 의한 Atm Switched Router간의 Lan-cable연결에 비해 빠른 전송서브시를 제공할수 있다.

3.발명의 권리보호 범위

DTE ALTSOLD SEPTEMBER

본 항은 발명의 명세서에 기재된 내용중 권리로서 보호 받고자 하는 사항율 기재하되. 본 발명에 의해 새롭게 창작된 구성 혹은 기능만을 기재함.특히,그중 보호를 받아야할 부분이나, 또 다른 실시예가 있는 경우 이를 다른 항으로 명확하고,간결하게 기재하시기 바람.

- 1. ENLA, SWITCH, IFCA, SOLA 간 데이터 전송을 위한 경로 설정 및 경로 설정 해제 기능
- 2. 운용자가 원하는 네트웍정보를 입력 받아 라인카드 초기 Setup시 네트웍정보를 받아 네트웍을 구성하는 기능.
- 3. 네트웍 구성시 서브네트웍을 1개 또는 2개로 구성할수 있는 기능.
- 4. 같은 서브네트웍인 경우 IFCA까지 가지 않고 바로 Mac_Switching할수 있는 기능.

社 外 秘

4. 도면의 간단한 설명

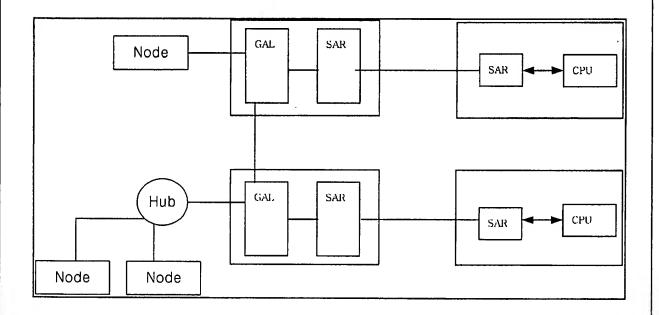
- ※도면의 도시된 내용에 따라 발명자가 의도했던 내용이 변할수 있으므로 본 발명서에 필요한 도면을 정확하게 표시하여,명세서 뒤에 반드시 첨부하시기 바람.
- ※ ①전자전기회로 관련 출원은 회로도,블록도,FLOW CHART,특성그래프 등이 첨부되어야함.
 - ②기계관련 출원은 전체 구조도,상세 구조도,투시도 등이 첨부되어야 하며,
 - ③공정관련 출원은 전체공정 계통도와 상세공정도 및 특성그래프 등이 첨부되어야 함.
- ※본 항에 예를들에 "제1도는 XXX 회로도,제2도는 ...소자의 단면도™ ."와 같이 기재바람.
- ※도면의 필요한 부분에 대해서는 그 명칭을 본 항 하단부 아래에 기재하시기 바람.

(<예>1:제어부 2:감지부)

1. 밑에 있는 도식은 Router간에 ENLA 보드사이에 Lan cable을 이용하여 Router를 연결하여 운용.

2.

Node -> Galileo -> SAR(ENLA) -> SAR(IFCA) -> CPU(IFCA) ->
<- Galileo <- CPU(ENLA) <- SAR(ENLA) <- SAR(IFCA) <-> Galileo -> SAR(ENLA) -> SAR(IFCA) -> CPU(IFCA) ->
Node <- Hub <- Galileo <- CPU(ENLA) <- SAR(ENLA) <- SAR(IFCA) <-



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE Attorney Docket No. 05-500-B

In re App	lication of:)	
Ju	ing Hee PARK) Examiner: TBA		
	onal Application I lication No.:	33) Group Art Unit: TBA ;) Confirmation No.: 445	5 0	
Internatio U.S. Filin	onal Filing Date: g Date:) Commission No.: 445	U	
For:	ATM Switched Router For Transmitting IP Packet Data))	

Mail Stop PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

DECLARATION IN SUPPORT OF PETITION UNDER 37 C.F.R. § 1.47(b) BY PERSON HAVING PROPRIETARY INTEREST TO FILE APPLICATION ON BEHALF OF INVENTOR WHO WE HAVE BEEN UNABLE TO LOCATE

Dear Sir:

This Declaration is in support of Petition under 37 C.F.R. § 1.47(b) to allow UTStarcom, Inc. to make the application on behalf of inventor Jung Hee PARK, who we have been unable to locate.

- 1. I, Jiwon LIM, am a paralegal at the law firm Kim & Chang.
- 2. I have first-hand knowledge of the facts recited herein.
- 3. This Declaration is in support of U.S. Patent Application entitled "ATM SWITCHED ROUTER FOR TRANSMITTING IP PACKET DATA," filed in the U.S. Patent Office on July 11, 2006 and bearing U.S. Application No. 10/585,586 and International Application No. PCT/KR2005/00133.
- 4. I am a paralegal at the law firm Kim & Chang, located at Hungkuk Life Insurance Building, 9F, 226 Sinmunno 1-ga, Jongno-gu, Seoul 110-786, Korea.

- Kim & Chang represents UTStarcom Korea Limited, a subsidiary of UTStarcom, Inc.
- 6. I am a citizen of Korea, residing at 840-7 Mia-dong, Gangbuk-gu, Seoul 142-820, Republic of Korea.
- 7. On December 1, 2006 I sent a letter, via content-certified mail, including assignment documents and the Inventor's Declaration of Invention, to Mr. Jung Hee PARK's last known physical address (San 136-1, Ami-ri, Bubal-eub, Icheon-si, Gyeonggi-do 467-860, Republic of Korea). (See attached Exhibit 1).
- 8. On December 5, 2006, the content-certified package mailed to Mr. PARK was returned because the address was incorrect. (See attached Exhibit 2). I did not attempt to personally visit Mr. PARK's address, as it is the company address of Hyundai Syscomm, Inc.
- 9. On February 28, 2007, I searched for an e-mail address using the inventor's name and residence identification number in well-known Korean webmail services as well as personal homepage service www.cyworld.co.kr. In order to register for an e-mail address, most of these services require a user to enter his or her full name and residence identification number. These searches resulted in only one complete e-mail address associated with Mr. PARK's residence identification number. (See attached Exhibit 3).
- 10. On February 28, 2007, I sent an e-mail, attaching all U.S. application materials (specification, claims, and drawings) to Mr. PARK's email address, goinha@hanmail.net. (See attached Exhibit 4). I did not receive a response to this e-mail.
- 11. I attempted to find Mr. PARK's phone number using Korea Information Services (KOIS). The Korea Information Service Corporation (KOIS) is essentially the Korean version of "411" and other directory assistance services. An

English version of the website that describes the services that KOIS provides can be found at www.ekois.co/kr/new/eng/main/index.php. (See also attached Exhibit 5). KOIS is the largest and most comprehensive directory service in Korea. KOIS maintains a large database that is searchable for the contact information of listed people and companies. However, much like "411", written confirmation of results is not provided by KOIS, as it is a telephonic service. Korea Information Services confirmed that no number was registered under Mr. PARK's name and his last known address. All efforts to obtain a current address, phone number, or email address, using KOIS have failed to provide new information concerning the whereabouts of Mr. PARK.

- 12. On May 17, 2007, I sent a reminder e-mail to Mr. PARK, and also offered U.S. \$250.00 as compensation for his cooperation in prosecuting this application. (See attached Exhibit 6). I did not receive a response to this e-mail.
 - 13. I believe that I have exhausted all means of contacting Mr. PARK.
- 14. I hereby declare that all statements made herein are of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made under penalty of perjury and that such willful false statements may jeopardize the validity of the specification or any patent issued thereon.

Respectfully submitted,

Date: June 14.2007

By: Jiwon Kin

Kim & Chang

Hungkuk Life Insurance Building, 9F, 226 Sinmunno 1-ga, Jongno-gu,

Seoul 110-786, Korea

MEMORANDUM OF LAW IN SUPPORT OF PETITION UNDER 37 C.F.R. § 1.47(b) BY PERSON HAVING PROPRIETARY INTEREST TO FILE APPLICATION ON BEHALF OF INVENTOR

This memorandum of law is in support of Petition under 37 C.F.R. § 1.47(b) to allow UTStarcom, Inc. ("UTStarcom") to make the application on behalf of a non-signing inventor.

BACKGROUND

UTStarcom submitted a Petition under 37 C.F.R. § 1.47(b) to allow UTStarcom to make the Application on behalf of the inventor listed in Schedule A, whom UTStarcom has been unable to locate. The Petition was denied on the grounds that UTStarcom allegedly failed to establish a proprietary interest in the above-referenced U.S. Application.

STATEMENT OF FACTS

All facts in support of the argument and conclusion are set forth in the Declaration of Joo-Young Kim under M.P.E.P. 409.03(f).

ARGUMENT AND CONCLUSION

UTStarcom should be awarded title to the above-referenced U.S. Application because UTStarcom, as the assignee of patent rights to the underlying Korean Application and subsequent patent applications granted by the assignor Hyundai Syscomm Inc. ("Hyundai Syscomm"), is the sole proprietary owner of the U.S. Application.

Under Korean Patent Law, UTStarcom is recognized as the owner of the Korean Application. First, the Korean Intellectual Property Office recognizes UTStarcom as the current owner of the Korean Application as a matter of record. Second, the invention disclosure form executed by the inventor in favor of Hyundai Syscomm, which includes an assignment of the subject matter of the Korean Application from the inventor to Hyundai Syscomm, is more than sufficient to overcome any challenge to UTStarcom's ownership interest.

The Korean Patent Act provides that a patent application of an employee may be filed directly by the employee's company, without an explicit assignment from the employee to the employee's company. Korean Patent Act, Article 42. Unless the examiner or a third party contests the company's right to file the application, the company becomes the owner of the application for all intents and purposes. Thus, even in the absence of an employee-inventor assignment, a Korean Patent Application filed by a company without contest by others is the proprietary owner of the patent rights. See Korean Patent Act, Article 42, Para 1.

In the instant case, Hyundai Syscomm filed the Korean National Application, listed in Schedule A, as the named applicant. The filing of the application was not contested by the Examiner or any third party. Thus, under Korean Law, Hyundai Syscomm became the owner of the Korean application even in the absence of an employee inventor assignment. Subsequently, the Hyundai Syscomm's patent portfolio, including the above-mentioned Korean Application, was assigned to UTStarcom. This assignment was recorded with the Korean Intellectual Property Office, without objection, making UTStarcom the legal owner of the above-mentioned Korean Application.

Under the present circumstances, only the inventor(s) may challenge the legitimacy of Hyundai Syscomm's ownership of the

Korean Application. Korean Patent Act, Articles 34 and 35. However, any challenge by the inventor(s) would fail under Korean Patent Law. The inventor(s) executed an invention disclosure form, which assigns the subject matter of the Korean Application to Hyundai Syscomm. Because the subject matter described in the invention disclosure form is virtually identical to the subject matter contained in the Korean Application, the assignment therein would be deemed by a Korean court of law to assign the Korean Application to Hyundai Syscomm. See In-Chul Choi v. Samsung Electonics Co., Ltd., 2001 Gahap 13977 (Seoul District Court, August 22, 2002) (recognizing the validity of the assignment based on the content in the invention disclosure form despite the absence of a specific application number reference). Thus, even if challenged, the chain of title of the Korean Application would be sustained under Korean Patent Law and UTStarcom would remain the ultimate owner.

This ownership of the Korean Application, in conjunction with the other assignment terms of the acquisition agreement previously submitted, establishes UTStarcom's rights to the subsequent PCT application and U.S. national phase application. Thus, UTStarcom has a proprietary interest in the referenced U.S. Application (listed in Schedule A), and should be allowed to make the application in U.S. on behalf of the missing inventor under 37 C.F.R. § 1.47(b).

Respectfully submitted

Date: June 11, 2001

Joo-Young Kim

Kim & Chang

Hungkuk Life Insurance Building, 9F, 226 Sinmunno 1-ga, Jongno-gu,

Seoul 110-786, Korea

DECLARATION IN SUPPORT OF PETITION UNDER 37 C.F.R. § 1.47(b) BY PERSON HAVING PROPRIETARY INTEREST TO FILE APPLICATION ON BEHALF OF INVENTOR

Dear Sir:

This Declaration is in support of Petition under 37 C.F.R. § 1.47(b) to allow UTStarcom, Inc. to make the application on behalf of the non-signing inventor(s) listed in Schedule A, column 3, whom we have been unable to locate.

- I, Joo-Young Kim, am a citizen of Korea, residing at Sangyong, Apt No. 103-1101, Sungsu-dong 1-ga 16/3, Sungdong-gu, Seoul, Republic of Korea.
- I am a Korean patent attorney with the law firm of Kim
 Chang, located at Hungkuk Life Insurance Building, 9F, 226
 Sinmunno 1-ga, Jongno-gu, Seoul 110-786, Korea.
- 3. On behalf of Kim & Chang, I am representing UTStarcom Korea Limited, a wholly owned subsidiary of UTStarcom, Inc.
 - 4. I am knowledgeable regarding Korean Patent Law.
- I submit this declaration in support of the accompanying memorandum of law.
- 6. The Korean company Hyundai Syscomm filed the Korean National Application listed in Schedule A, Column 6 as the applicant of record, with inventor(s) in Schedule A, column 3 listed as the inventor(s).

- 7. The filing of the above-referenced Korean Application by Hyundai Syscomm was not opposed by the Examiner or any third party including the employee/inventor.
- 8. On April 27, 2004, UTStarcom, Inc., through its wholly owned subsidiary UTStarcom Korea Limited, acquired Hyundai Syscomm's Intellectual Property Portfolio, including the rights to the Korean National Application listed in Schedule A, column 6, and duly recorded this change of ownership with the Korean Intellectual Property Office without objection.
- 9. As a result of the acquisition, UTStarcom, Inc. became the sole proprietary owner of Hyundai Syscomm's Intellectual Property Portfolio, which includes the above-referenced Korean National Application.
- 10. UTStarcom Korea Limited filed the PCT application listed in Schedule A, column 8, claiming priority to the above-referenced Korean National Application.
- 11. The above-referenced PCT application entered U.S.

 National phase in the United States on the date listed in

 Schedule A, column 5, having the U.S. Application Serial Number

 listed in Schedule A, column 4.
- 12. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the

United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Respectfully submitted,

e: (6 Jamay -2001)

Joo-Young Kim Kim & Chang

Hungkuk Life Insurance Building,

9F,

226 Sinmunno 1-ga, Jongno-gu, Seoul 110-786, Korea

Exhibit 1

[KOREAN PATENT ACT]

제 34 조 (무권리자의 특허출원과 정당한 권리자의 보호)

발명자가 아닌 자로서 특허를 받을 수 있는 권리의 승계인이 아닌 자(이하 "무권리자"라 한다)가 한 특허출원이 제 33 조제 1 항 본문의 규정에 의한 특허를 받을 수 있는 권리를 가지지 아니한 사유로 제 62 조 제 2 호에 해당되어 특허를 받지 못하게 된 경우에는 그 무권리자의 특허출원후에 한 정당한 권리자의 특허출원은 무권리자가 특허출원한 때에 특허출원한 것으로 본다. 다만, 무권리자가 특허를 받지 못하게 된 날부터 30 일을 경과한 후에 출원을 한 경우에는 그러하지 아니하다.

제 35 조 (무권리자의 특허와 정당한 권리자의 보호) 제 33 조제 1 항 본문의 규정에 의한 특허를 받을 수 있는 권리를 가지지 아니한 사유로 제 69 조 제 1 항 제 2 호에 해당되어 특허취소결정이 확정된 경우 또는 제 33 조 제 1 항 본문의 규정에 의한 특허를 받을 수 있는 권리를 가지지 아니한 사유로 제 133 조 제 1 항 제 2 호에 해당되어 특허를 무효로 한다는 심결이 확정된 경우에는 그 특허출원후에 한 정당한 권리자의 특허출원은 취소 또는 무효로 된 그 특허의 출원시에 특허출원한 것으로 본다. 다만, 그 특허의 등록공고가 있는 날부터 2 년을 경과한 후에 특허출원을 하거나 취소결정 또는 심결이 확정된 날부터 30 일을 경과한 후에 특허출원을 한 경우에는 그러하지 아니하다.

[TRANSLATION]

Article 34 (Patent Application Filed by an Unentitled Person and Protection of the Lawful Holder of a Right)

Where a patent cannot be granted because an application was filed by a person who is not the inventor or a successor to the right to obtain a patent (referred to as "an unentitled person") under Article 33(1) as prescribed in Article 62(ii), a subsequent application filed by the lawful holder of the right is deemed to have been filed on the filing date of the earlier application filed by the unentitled person. This provision does not apply, however, if the subsequent application is filed by the lawful holder of the right more than thirty days after the date on which the application filed by the unentitled person was rejected.

Article 35 (Patent Granted to an Unentitled Person and Protection of the Lawful Holder of a Right)

Where a decision to revoke a patent becomes final for lack of entitlement to obtain a patent under Article 33(1) as prescribed in Article 69(1)(ii) or a decision to invalidate becomes final due to a lack of entitlement under Article 33(1) as prescribed in Article 133(1)(ii), a subsequent application filed by the lawful holder of the right is deemed to have been filed on the filing date of the revoked or invalidated application. However, this provision does not apply if the subsequent application is filed more than two years after the publication date of the first application or more than thirty days after the decision to revoke or invalidate becomes final.

[KOREAN PATENT ACT]

제 42 조 (특허출원)

①특허를 받고자 하는 자는 다음 각호의 사항을 기재한 특허출원서를 특허청장에게 제출하여야 한다.

- 1. 특허출원인의 성명 및 주소(법인인 경우에는 그 명칭 및 영업소의 소재지)
- 2. 특허출원인의 대리인이 있는 경우에는 그 대리인의 성명 및 주소나 영업소의 소재지(대리인이 특허법인인 경우에는 그 명칭, 사무소의 소재지 및 지정된 변리사의 성명)
- 3. 삭제
- 4. 발명의 명칭
- 5. 발명자의 성명 및 주소
- 6. 삭제

[TRANSLATION]

Article 42 (Patent Application)

- (1) A person seeking to register a patent shall file a patent application with the Commissioner of the Korean Intellectual Property Office, stating the following:
- (i) the name and address of the applicant (and, if a legal entity, the name and address of the business);
- (ii) the name and residential or business address of the agent, if any (and, if the agent is a patent legal entity, the name and address of the business and the name of the designated patent attorney);
- (iii) deleted;
- (iv) the title of the invention;
- (v) the name and address of the inventor;
- (vi) deleted.

Exhibit 2

Seoul Southern District Court

Judgment

Case No.

2001 Gahap 13977

Plaintiff:

In Chul Choi

Defendant:

Samsung Electronics Ltd.

Pronouncement:

August 22, 2002

ORDER

The confirmation claim of the present action is dismissed.

Tenor of Complaint

Plaintiff hereby seeks confirmation that the patented inventions, described in the patent right list of the accompanying sheet, do not belong to an in-service invention.

GROUNDS

1. Findings of Facts

- A. The Defendant's company, taking fabrication, sale, etc. of communication mechanisms and related devices as its objective under its constitution, has manufactured mobile-phone terminals since May of 1989. The Plaintiff entered the Defendant's company on January 10, 1989, and had served as a member of a team known as the "Time Machine Team (TMT)" between July 13, 1992 and February 16, 1995.
- B. TMT of the Defendant's company is a department that was organized by selecting incumbent staff to create ideas for new product development. TMT holds a weekly evaluation meeting, where team members exchange ideas equipped with marketability and practicability, and hold quarterly meetings that report the results to the board of directors, assigning no specific tasks to its team members. The Plaintiff was mainly focused on conceiving and commercializing a new Hangul inputting method, submitting a report titled "Value of Text in the Multimedia World" showing the needs and practicability

of a new Hangul inputting method on May 20, 1994, and a report titled "First report regarding commercialization drive of a new Hangul inputting method" on July 18, 1994, together with his teammate, Dong Ki Rui.

- C. During his tenure on TMT, the Plaintiff invented "Method and Apparatus for Generating Text Inputting Codes (hereinafter, referred to as the 'first invention')," described in patent right list 1 of the accompanying sheet, and transferred the right to obtain a patent for the Defendant's company while providing an in-service invention report on the first invention on February 19, 1993. The Defendant's company filed a patent application for the first invention in its name on July 6, 1993, and completed the patent registration on March 13, 1996.
- D. Furthermore, the Plaintiff, together with his teammate, Dong Ki Rui, invented "Method and Apparatus for Generating Text Inputting Codes (hereinafter, referred to as the 'second invention')" described in patent right list 2, and transferred the right to obtain a patent for the Defendant's company while providing an in-service invention report on the second invention on October 13, 1994. The Defendant's company filed a patent application for the second invention in its name on May 11, 1995, and completed the patent registration on August 10, 1998.
- E. The Defendant's company has manufactured and sold mobile-phone terminals using the text inputting methods of the inventions since November of 1998.
- 2. The Plaintiff's Claims and Holding thereon

A. Gist of the Plaintiff's Claims

The Plaintiff seeks: (a) confirmation that the fist and second inventions are not an in-service invention, arguing that the inventions were misconceived as an in-service invention and filed in the name of the Defendant's company although they actually belong to a liberal invention; and (b) the Defendant's return of 1 billion KrW as part of an unjust enrichment, arguing that since the contracts of transfer were based on a misconception for

[Translation]

the inventions to be an in-service invention are invalid, the Defendant is not a legitimate patentee and has an obligation to return, to the Plaintiff, the profits earned by practicing the inventions as an unjust enrichment.

B. Relevancy of the Confirmation Claim

The Defendant made a defense prior to a main hearing that the Plaintiff's confirmation claim lacks eligibility and thus is irrelevant because it seeks confirmation of a factual matter. The Plaintiff seeks the confirmation for the first and second inventions to not be an in-service invention as a basis for the unjust enrichment return claim being sought by the present action. This is to confirm part of a legal requirement fact, and thus is irrelevant. Furthermore, the confirmation stake of a confirmation action can be recognized if the obtainment of a confirmation judgment is the most effective and appropriate means for eliminating the challenge and risk when the plaintiff's legal status is challenged and risked. However, as will be seen in item C. (1), even though the first and second inventions were not an in-service invention, this would not affect the patent right registered in the name of the Defendant's company, unless the invalidation decision is rendered and becomes final and conclusive in a patent registration invalidation trial. Therefore, because seeking the confirmation for the inventions to not be an in-service invention cannot be seen as an effective and appropriate means, the Plaintiff's confirmation claim of the present action is irrelevant.

C. Unjust Enrichment Return Claim

(1) The Plaintiff argues first, that since the first and second inventions are not an in-service invention but a liberal one, each contract for transferring each right to obtain a patent to the Defendant is invalid per se for primitive impossibility of the objective of a legal activity or under Article 39, Paragraph 1 of the Patent Act, or invalid for violating Article 103 of the Civil Code.

In regard to this, if the first and second inventions belong to a liberal invention, Article 39, Paragraph 1 of the Patent Act stipulates that an invention constitutes an in-service invention if the invention was made by an employee, etc. in connection with his/her service and falls by nature within the business

[Translation]

range of the employer, etc., and the activity resulting into the invention was part of the present or past duties of the employee, etc.

As previously seen, the Defendant's company takes the fabrication and sale of communication mechanisms as one of its founding objectives, and has set the mobile-phone terminal as one of the primary manufactured items from the year of 1989 through to the present time. Since the inventions are directed to a text inputting method usable for mobile-phone terminals, these are regarded to fall within the business range of the Defendant's company. Furthermore, the Plaintiff's then duty was to create ideas for new products development in the field of the information and telecommunication at the time of conceiving each invention, and the Plaintiff reached the first and second inventions substantially as a result of focusing mainly on collecting ideas for a Hangul inputting method. As such, each invention is determined to fall within the Plaintiff's duty.

Therefore, since the first and second inventions should belong to an inservice invention, the Plaintiff's arguments contend the validity of each transfer contact on premise of the opposite.

(2) The Plaintiff also argues that since the patent application for the second invention was filed four months after the Defendant's company succeeded to the right to the invention from the Plaintiff, the second invention should be regarded as a liberal invention under Article 11, Paragraph 1 of the Invention Promotion Act, and the Defendant should return unjust enrichment, amounting to the royalty of a non-exclusive license, for failing to obtain consent to a non-exclusive license from the inventor Plaintiff under Article 2 of the same.

Article 11 of the Invention Promotion Act views an invention as a liberal invention in case an employer, etc. fails to file a patent application within a period designated under the Presidential Order (Article 5 of the same designates the period for four months) after succeeding the right to an inservice invention or waive filing of the application in writing (Paragraph 1), and stipulates that the employer, etc. cannot own a non-exclusive license to the inservice invention being regarded as a liberal one without the consent of the employee, etc in spite of Article 39, Paragraph 1 of the Patent Act (Paragraph

2). The fact that the Defendant's company filed the application for the second invention on May 11, 1995, four months passing from October 13, 1994 when the Defendant's company succeeded to the right to the second invention from the Plaintiff, is as previously seen.

However, even if the Defendant's company had completed the patent registration in its name, although the transfer contract of the second invention was invalidated under the above provision and the Defendant's company did not have a right to obtain a patent, the Plaintiff could not assert invalidity of the patent right having been registered in the name of the Defendant's company until the patent invalidation decision goes final and conclusive. Of course, the Plaintiff could request a patent invalidation trial based on the above grounds, which however, is not feasible here. Therefore, the Defendant has a right to legally practice the invention, and needs not obtain consent of the Plaintiff for practicing the invention because the Plaintiff did not register the patent in his/her own name. As such, the Plaintiff's above arguments are groundless and unreasonable.

서 울 지 방 법 원 남 부 지 원

판 결

사 건 2001가합13977호

원 고 최인철

피 고 삼성전자주식회사

판 결 선 고 2002. 8.22.

주 문

이 사건 소 중 확인청구 부분을 각하한다.

청구취지

원고와 피고 사이에서 별지 특허권목록 기재 1, 2의 특허발명은 직무발명이 아님을 확인한다.

이 유

1. 기초사실

- 가. 피고회사는 통신기계기구 및 관련기구와 그 부품의 제작, 판매 등을 그 정관상의 목적으로 하고, 1989. 5.경부터 이동전화단말기를 생산해 온 회사이고, 원고는 1989. 1. 10. 피고회사에 입사하여 1992. 7. 13.부터 1995. 2. 16.까지 사이에 피고회사의 '타임머쉰팀'에 소속되어 근무하였다.
- 나. 피고회사의 '타임머쉰팀'은 신상품개발을 위한 아이디어 창출을 위하여 사내공모를 통해 직원을 선발, 조직한 부서로 그 팀원들은 구체적인 특정 업무를 맡지 아니한 채 매주 팀원들간에 시장성과 실현성 있는 아이디어를 제출하는 평가회를 가지고, 분기별로 경영진을 대상으로 그 결과물을 발표하는 정기 보고회를 개최하였는데, 원고는 같은 팀원인 류동기와 함께 1994. 5. 20. 새로운 한글입력방식의 필요성과 실용화방안에 관한 '멀티미디어 세계에서 문자의 가치'라는 보고서를, 1994. 7. 18. '새로운한글입력방법 사업화추진 1차 보고서'를 각 제출하는 등 주로 새로운 한글입력방식의고안 및 사업화에 주력하였다.
- 다. 원고는 위 타임머쉰팀에 근무하던 중, 별지 특허권목록 1, 기재의 '문자입력코드 발생방법 및 장치'(이하 '제1발명'이라 한다)를 발명하고, 1993. 2. 19. 피고회사에 제1발명에 관한 직무발명신고를 하면서 특허받을 권리를 양도하였으며, 피고회사는 1993. 7. 6. 피고회사 명의로 제1발명에 관한 특허를 출원하여 1996. 3. 13. 특허등록을 마쳤다.

- 라. 또한 원고는 위 류동기와 함께 위 목록 2. 기재의 '문자입력코드 발생장치 및 방법'(이하 '제2발명'이라 한다)을 발명하고, 1994. 10. 13. 피고회사에 제2발명에 관한 직무발명신고를 하면서 특허받을 권리를 양도하였으며, 피고회사는 1995. 5. 11. 피고회사 명의로 제2발명에 관한 특허를 출원하여 1998. 8. 10. 특허등록을 마쳤다.
- 마. 피고회사는 1998. 11.경부터 위 발명들의 문자입력방식을 이용한 이동전화단말기를 생산, 판매해 오고 있다.

2. 원고의 청구 및 이에 대한 판단

가. 원고의 청구내용

원고는 ① 위 각 발명은 원고 개인의 자유발명에 해당됨에도 직무발명으로 오인되어 피고 명의로 특허등록이 된 것이라고 주장하면서 제1, 2발명이 직무발명이 아니라는 확인을 구하고, ② 위 발명들을 직무발명으로 오인하고 체결한 각 양도계약이무효인 이상 정당한 특허권자가 아닌 피고는 위 발명들을 실시하여 얻은 수익을 부당이득으로서 원고에게 반환할 의무가 있다고 주장하면서, 그 일부로서 10억원을 지급할 것을 구한다.

나. 확인청구 부분의 적법성

파고는, 원고의 위 확인청구는 사실관계의 확인을 구하는 것으로 확인의 소의 대상적격이 없어 부적법하다고 본 안전 항변을 하므로 살피건대, 원고의 위 확인청구는 원고가 이 사건 소로써 구하고 있는 부당이득반환청구의 전제로 제1, 2발명이 직무발명이 아니라는 확인을 구하는 취지인바, 이는 법률요건사실 일부의 확인을 구하는 것이어서 부적법하고, 또한 확인의 소에 있어서 확인의 이익은 원고의 법적 지위가 불안, 위험할 때 그 불안, 위험을 제거하는데 있어 확인판결을 받는 것이 가장 유효·적절한 수단인 경우에 인정된다 할 것인데, 아래 다.의 (2)항에서 보는 바와 같이 가사 제1, 2발명이 직무발명이 아니라 하더라도 특허무효심판절차에서 무효심결이 확정되지 아니하는 이상에는 피고회사 명의로 등록된 특허권에 어떠한 효력이 미친다고 볼 수도 없으므로, 위 발명들이 직무발명이 아니라는 확인을 구하는 것은 원고에게 현존하는 법적 불안, 위험을 해소할 수 있는 유효·적절한 수단이라 할 수 없으니, 결국 원고의 이사건 소 중 확인청구 부분은 부적법하다.

다. 부당이득반환청구 부분

(1) 원고는 먼저, 제1, 2발명은 직무발명이 아닌 자유발명이므로 그 특허받을 권리를 피고에게 양도한 위 각 양도계약은 법률행위 목적의 원시적 불능 또는 특허법 제 39조 제3항에 의하여 당연 무효이거나 민법 제103조에 위반되어 무효라고 주장한다.

그러므로 과연 제1, 2발명이 자유발명인지에 관하여 보건대, 특허법 제39조 제 1항은 직무발명의 개념에 관하여 종업원 등이 그 직무에 관하여 발명한 것이 성질상' 사용자 등의 업무범위에 속하고, 그 발명을 하게 된 행위가 종업원 등의 현재 또는 과 거의 직무에 속하는 경우 그 발명은 직무발명이라고 규정하고 있다. 앞에서 본 바와 같이 피고회사는 통신기계기구의 제작, 판매를 그 설립목적의하나로 규정하고 있고, 1989년부터 현재까지 이동전화단말기를 주요 생산품목으로 하고 있으며, 위 발명들은 이동전화단말기에 이용될 수 있는 문자입력방식에 관한 발명이므로 피고회사의 업무범위에 속한다 할 것이다. 또한 위 각 발명 당시 원고의 직무는 정보통신부분의 신상품 개발을 위한 아이디어를 창출하는 것으로 실제 한글입력방식에 관한 아이디어 계발에 주력한 결과 제1, 2발명에 이르게 되었으므로 위 각 발명행위는 원고의 직무에 속한다 할 것이다.

따라서 제1, 2발명은 직무발명에 해당한다고 보아야 할 것이므로, 위 발명들이 직무발명이 아님을 전제로 각 양도계약의 효력을 다투는 원고의 주장은 더 나아가 살 필 것 없이 이유 없다.

(2) 원고는 또한, 제2발명에서는 피고회사가 원고로부터 발명에 관한 권리를 승계한 때로부터 4개월이 지나서 특허를 출원하였으므로 이는 발명진홍법 제11조 제1항에 의하여 자유발명으로 간주되고, 같은 조 제2항에 따라 발명자인 원고로부터 통상실시에 대한 동의를 받지 아니한 이상 피고는 원고에게 통상실시료 상당의 부당이득을 반환하여야 한다고 주장한다.

살피건대, 발명진흥법 제11조는 사용자 등이 직무발명에 관한 권리를 승계한 후 대통령령이 정하는 기간(같은 법 시행령 제5조는 그 기간을 4개월로 정하고 있다) 내에 출원을 하지 아니하는 경우 또는 서면으로 그 출원을 포기한 경우 당해 발명은 자유발명으로 보고(제1항), 자유발명으로 보는 직무발명에 대하여는 특허법 제39조 제1항의 규정에도 불구하고 당해 발명을 한 종업원 등의 동의를 받지 아니하고는 통상실

시권을 가질 수 없다(제2항)고 규정하고 있고, 피고회사가 원고로부터 제2발명에 관한 권리를 숭계한 1994. 10. 13.로부터 4개월이 경과한 1995. 5. 11.에야 위 발명에 관한 특허를 출원한 사실은 앞에서 본 바와 같다.

그러나 가사 위 법률규정에 의하여 제2발명에 관한 양도계약이 무효가 되어 피고회사가 특허를 받을 권리를 가지지 아니함에도 불구하고 그 명의로 특허등록을 마쳤다 하더라도 원고가 그와 같은 사유를 들어 특허무효심판을 청구함은 별론으로 하고 특허무효심결이 확정되기 전에는 피고 명의로 등록된 특허권의 무효를 주장할 수는 없는 것이므로 피고는 특허권자로서 적법하게 그 발명을 실시할 권리가 있고, 또한 원고가 자기 명의로 특허등록을 받지 아니한 이상 피고회사가 위 발명을 실시함에 있어 원고의 동의를 얻어야 한다고 볼 수도 없으므로, 원고의 위 주장은 이유 없다.

•			·		,				r
σ	Filing Date PCT National Phase	March 24, 2004	March 24, 2004	March 24, 2004	July 23, 2004	July 23, 2004	July 26, 2004	July 23, 2004	July 23, 2004
α	PCT Application No.	PCT/KR2004/00645	PCT/KR2004/00655	PCT/KR2004/00654	PCT/KR2004/01858	PCT/KR2004/01858	PCT/KR2004/01880	PCT/KR2004/01853	PCT/KR2004/01853
7	Filing Date (Korean Application)	March 25, 2003	March 25, 2003	March 25, 2003	July 24, 2003	July 24, 2003	July 25, 2003	July 24, 2003	July 24, 2003
E A	Korean Application No.	2003-0018549	2003-0018553	2003-0018554	2003-0051165	2003-0051165	2003-0051466	2003-0051153	2003-0051153
SCHEDULE A	U.S. Filing Date	August 17, 2005	August 12, 2005	August 17, 2005	December 6, 2005	September 25, 2006	December 12, 2005	December 6, 2005	September 25, 2006
4	U.S. Application No.	10/545,922	10/545,505	10/545,895	10/559,738	11/534,965	10/560,297	10/559,225	11/534,970
m	Inventor(s)	Se Yeon KIM	Seong Chul SHIN	Yeong Weon JUNG	Kyung Hwan AN	Kyung Hwan AN	Kye Chol CHO	Chan Soo PARK	Chan Soo PARK
2	Title	Method For Stabilizing BTS Using E1 Trunk Board Duplexing Of BSC	Method For Optimizing A DSP Input Clock Using A Comparing/Analyzing	Method For Trunk Line Duplexing Protection Using A Hardware Watchdog	Device for Implementing a RNC Using LVDS	Device for Implementing a RNC Using LVDS	Method of Allocating Links in a IX EVDO System	Method for Downloading a Single Firmware Image File to Client Systems Having Different CPU Modules	Method for Downloading a Single Firmware Image File to Client Systems Having Different CPU Modules
~	MBHB Reference No.	05-386-B	05-390-B	05-392-B	05-428-B	05-428-C	05-429-B	05-432-B	05-432-C
		-	2	က	4	5	9	2	8

SCHEDULE A

Inventor(s) Application U.S. Filing Date Application Korean PCT Application No. No. Application No. No.	MBHB	B			U.S.		Korean	Filing Date		TOG - 2-0
10/559,235 December 6, 2005 2003-0051155 July 24, 2003 PCT/KR2004/01855 10/550,142 December 9, 2005 2003-0051157 July 24, 2003 PCT/KR2004/01855 10/550,142 December 9, 2005 2003-0051157 July 24, 2003 PCT/KR2004/001856 10/556,267 November 14, 2005 2003-0016557 March 25, 2003 PCT/KR2004/01276 10/556,267 November 14, 2005 2003-006875 September 26, 2003 PCT/KR2004/02466 10/568,234 February 7, 2006 2003-0067736 September 30, 2003 PCT/KR2004/02469 10/569,046 February 22, 2008 2003-0067737 September 30, 2003 PCT/KR2004/02470	Reference No.		Title	Inventor(s)	Application No.	U.S. Filing Date	Application	(Korean Application)	PCT Application No.	Filing Date PCI National Phase
10/560,142 December 9, 2005 2003-0051155 July 24, 2003 PCT/KR2004/001855 10/560,142 December 9, 2005 2003-0051157 July 24, 2003 PCT/KR2004/001856 10/560,267 August 16, 2005 2003-0034799 May 30, 2003 PCT/KR2004/006688 10/566,267 November 14, 2005 2003-0066875 September 26, 2003 PCT/KR2004/02466 10/568,234 February 7, 2006 2003-0067736 September 30, 2003 PCT/KR2004/02469 10/568,234 February 22, 2006 2003-0067737 September 30, 2003 PCT/KR2004/02470	05-433-B	A Q A	ethod for Unifying erations of Boards y Using Logical dresses Thereof	Yoon Mi HWANG	10/559,235	December 6, 2005	2003-0051155	July 24, 2003	PCT/KR2004/01855	July 23, 2004
10/560,142 December 9, 2005 2003-0051157 July 24, 2003 PCT/KR2004/001856 10/545,578 August 16, 2005 2003-0018557 March 25, 2003 PCT/KR2004/00688 10/556,267 November 14, 2005 2003-0034799 May 30, 2003 PCT/KR2004/02466 10/568,234 February 7, 2006 2003-0067736 September 26, 2003 PCT/KR2004/02469 10/568,046 February 22, 2006 2003-0067737 September 30, 2003 PCT/KR2004/02470	05-433-C Op	Ž Ģ A	ethod for Unifying erations of Boards by Using Logical ddresses Thereof	Yoon Mi HWANG	11/534,960	September 25, 2006	2003-0051155	July 24, 2003	PCT/KR2004/01855	July 23, 2004
10/556,267 August 16, 2005 2003-0018557 March 25, 2003 PCT/KR2004/00658 10/556,267 November 14, 2005 2003-0034799 May 30, 2003 PCT/KR2004/01276 10/567,529 February 7, 2006 2003-0066875 September 26, 2003 PCT/KR2004/02466 10/568,234 February 14, 2006 2003-0067736 September 30, 2003 PCT/KR2004/02469 10/569,046 February 22, 2006 2003-0067737 September 30, 2003 PCT/KR2004/02470	Es Tr 05-434-B Bel	Bel T	Method for tablishing an ATM affic Channel Path ween a BSC and a STS in an EV-DO System	Woo Seog KOO	10/560,142	December 9, 2005	2003-0051157	July 24, 2003	PCT/KR2004/001856	July 23, 2004
Jae Ick LEE 10/556,267 November 14, 2005 2003-0034799 May 30, 2003 PCT/KR2004/01276 Choon Geun CHOON Geun 10/567,529 February 7, 2006 2003-0066875 September 26, 2003 PCT/KR2004/02466 Tae Ik SONG 10/568,234 February 14, 2006 2003-0067736 September 30, 2003 PCT/KR2004/02469 Dong Keun KIM 10/569,046 February 22, 2006 2003-0067737 September 30, 2003 PCT/KR2004/02470	05-438-B AT	A	M Switch for use in W-CDMA	Cheol Hyun JANG	10/545,578	August 16, 2005	2003-0018557	March 25, 2003	PCT/KR2004/00658	March 25
Choon Geun CHO 10/567,529 February 7, 2006 2003-0066875 September 26, 2003 PCT/KR2004/02466 Tae Ik SONG 10/568,234 February 14, 2006 2003-0067736 September 30, 2003 PCT/KR2004/02469 Dong Keun KIM 10/569,046 February 22, 2006 2003-0067737 September 30, 2003 PCT/KR2004/02470	05-439-B Se T		Remote Unit for Adding Frequency Assignments to a paration-Type Base ransceiver Station	Jae Ick LEE	10/556,267	November 14, 2005	2003-0034799	May 30, 2003	PCT/KR2004/01276	May 28, 2004
Tae Ik SONG 10/568,234 February 14, 2006 2003-0067736 September 30, 2003 PCT/KR2004/02469 Dong Keun KIM 10/569,046 February 22, 2006 2003-0067737 September 30, 2003 PCT/KR2004/02470	05-476-C tt	_ ≥ ≠		Choon Geun CHO	10/567,529	February 7, 2006			PCT/KR2004/02466	September 24, 2004
Dong Keun 10/569,046 February 22, 2006 2003-0067737 September 30, 2003 PCT/KR2004/02470	05-496-C F	ž H	ethod of Controlling ower in a CDMA- 2000 System	Tae Ik SONG	10/568,234	February 14, 2006		September 30, 2003	PCT/KR2004/02469	September 24, 2004
	05-497-C	∑ q	ethod of Controlling ower in a W-CDMA Mobile Communication System	Dong Keun KIM	10/569,046	February 22, 2006	2003-0067737	September 30, 2003	PCT/KR2004/02470	September 24, 2004

SCHEDULE A

	Filing Date PCT National Phase	September 24, 2004	January 14, 2005	January 14, 2005	January 14, 2005	January 14, 2005	January 14, 2005
	PCT Application No.	PCT/KR2004/02471	PCT/KR2005/00133	PCT/KR2005/00134	PCT/KR2005/00138	PCT/KR2005/00139	PCT/KR2005/00140
	Filing Date (Korean Application)	2003-0067738 September 30, 2003	January 15, 2004	January 15, 2004	January 15, 2004	January 15, 2004	January 15, 2004
	Application No.	2003-0067738	2004-0002981	2004-0002973	2004-0002979	2004-0002980	2004-0002982
SCHEDOLE A	U.S. Filing Date	February 22, 2006	July 11, 2006	July 11, 2006	July 13, 2006	July 13, 2006	July 13, 2006
011	Application No.	10/569,041	10/585,586	10/585,602	10/586,086	10/586,289	10/586,087
	Inventor(s)	Jung Han LEE	Jung Hee PARK	Tae Hong KIM	Sang Dae PARK	Ki Sung LYU 10/586,289	Young Jin KIM
	Title	Method of Controlling Data Rate for a Forward Data Service in a CDMA 2000-1X System	ATM Switched Router for Transmitting IP Packet Data	Apparatus and Method for Dualizing an Asynchronous Transfer Mode (ATM) Router in a CDMA2000 System	Method for Correcting Time Data in a Network Management Application Using a SNMP	Apparatus and Method for Sensing Faults of Application Programs in a CDMA System	Automatic Update System and Method
MAHR	Reference No.	05-498-C	05-500-B	05-507-B	05-509-B	05-511-B	05-517-B
		17	18	19	20	21	22

SCHEDULE A

	Filing Date PCT National Phase	January 14, 2005	June 2, 2004	July 23, 2004	May 28, 2004	July 23, 2004
	PCT Application No.	PCT/KR2005/00141	PCT/KR2004/01310	PCT/KR2004/01851	PCT/KR2004/01274	PCT/KR2004/01854
	Filing Date (Korean Application)	<u> </u>	June 2, 2003	July 24, 2003	May 30, 2003	July 24, 2003
ÄА	Korean Application No.	2004-0002983	2003-0035283	2003-0050916	2003-0034806	2003-0051154
SCHEDULE A	U.S. Filing Date	July 12, 2006	November 14, 2005	December 13, 2005	November 14, 2005	December 19, 2005
	U.S. Application No.	10/585,838	10/556,924	10/560,664	10/556,274	10/561,351
	Inventor(s)	Kwang Seok KANG	Hyun Young SHIN	June Man KIM	Sea Gon CHUN	Ju Hyun BAN; Sang Won SON
	Title	Structure of a Management Information Base Communicated Between a Network Management System and an Agent of a Network Element	Method of Distributing Network Traffic in a Mobile Communication System	System and Method for Tracking Position of a Mobile Unit Using Beacons in a Mobile Communications	Method for Call Completion Service	Method for Automatically Setting a Frequency of a Base Station in a CDMA- 2000 System
	MBHB Reference No.	05-518-B	05-595-B	05-597-B	05-615-B	05-616-B
		23	24	25	26	27

Supplemental Application Data Sheet

Application Information

Application Type:: Regular

Subject Matter:: Utility

Suggested Classification:: N/A

Suggested Group Art Unit:: N/A

CD-Rom or CD-R? N/A

Title:: ATM WITCHED SWITCHED ROUTER

FOR TRANSMITTING IP PACKET DATA

Attorney Docket Number:: 05-500-B

Request for Early Publication?:: No

Request for Non-Publication?:: No

Suggested Drawing Figure:: 3

Total Drawing Sheets:: 1

Small Entity:: No

Petition Included?::

Secrecy Order in Parent Appl.?:: No

Applicant Information

Applicant Authority type:: Inventor

Primary Citizenship Country:: Korea

Status:: Full

Given Name:: Jung Hee

Family Name:: Park

City of Residence:: Gyeonggi-do

Country of Residence:: Korea

Street of mailing address:: San 136-1, Ami-ri, Bubal-eub Icheon-si

City of mailing address:: Gyeonggi-do

Country of mailing address:: Korea

Postal or Zip Code of mailing address:: 467-860

Correspondence Information

Correspondence Customer Number::

20306

Representative Information

	00000
Representative Customer Number::	20306
I Nebieselialive Custoffiel Nutfibel	ZUSUU

Domestic Priority Information

Application::	Continuity Type::	Parent Application::	Parent Filing Date::
This application	National Stage of	PCT/KR2005/000133	14 January 2005

Foreign Priority Information

Country::	Application Number::	Filing Date::	Priority Claimed::
Korea	10-2004-0002981	15 January 1004 2004	Yes

Assignee Information

Assignee Name:

UTStarcom Korea Limited

Street of mailing address:: San 136-1, Ami-ri, Bubal-eub Icheon-si

City of mailing address:: Kyongki-do

Country of mailing address:: Korea

Postal or Zip Code of mailing address:: 467-701

EXHIBIT B

USPTO 6/15/2007 2:18:07 PM PAGE 1/005 Fax Server

:MCDONNELL BOEHNEN HULBERT & BERGHOFF LLP COMPANY:300 S. WACKER DR., STE. 3



UNITED STATES PATENT AND TRADEMARK OFFICE



Facsimile Transmission

To:

Name:

MCDONNELL BOEHNEN HULBERT & BERGHOFF LLP

Company:

300 S. WACKER DR., STE. 3100

Fax Number:

Voice Phone:

13129130002

From:

Name:

ASSIGNMENT SERVICES BRANCH

Voice Phone:

571-272-3350

37 C.F.R. 1.6 sets forth the types of correspondence that can be communicated to the Patent and Trademark Office via facsimile transmissions. Applicants are advised to use the certificate of facsimile transmission procedures when submitting a reply to a non-final or final Office action by facsimile (37 CFR 1.8(a)).

Fax Notes:

Pg#	Description
1	Cover Page
2	637.TXT
4	Document 1. Batch 956024

USPTO ASSIGNMENT SYSTEM PROCESSING

Date and time of transmission: Friday, June 15, 2007 2:17:44 PM

Number of pages including this cover sheet: 05

USPTO 6/15/2007 2:18:07 PM PAGE 2/005 Fax Server

:MCDONNELL BOEHNEN HULBERT & BERGHOFF LLP COMPANY:300 S. WACKER DR., STE. 3



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

JUNE 15, 2007

PTAS

500296831A

MCDONNELL BOEHNEN HULBERT & BERGHOFF LLP 300 S. WACKER DR., STE. 3100

ROBERT J. IRVINE CHICAGO, IL 60606

500296831A

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 06/15/2007 REEL/FRAME: 019435/0769 NUMBER OF PAGES: 51

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS). DOCKET NUMBER: 05-500-B

ASSIGNOR:

HYUNDAI SYSCOMM, INC. DOC DATE: 04/27/2004

ASSIGNEE:

UTSTARCOM KOREA LIMITED SAN 136-1, AMI-RI, BUBAL-EUB,

ICHEON-SI

KYONGKI-DO, REPUBLIC OF KOREA

467-701

SERIAL NUMBER: 10585586 FILING DATE: PATENT NUMBER: ISSUE DATE:

TITLE: ATM SWITCHED ROUTER FOR TRANSMITTING IP PACKET DATA

USPTO 6/15/2007 2:18:07 PM PAGE 3/005 Fax Server: MCDONNELL BOEHNEN HULBERT & BERGHOFF LLP COMPANY:300 S. WACKER DR., STE. 3

019435/0769 PAGE 2

ASSIGNMENT SERVICES BRANCH PUBLIC RECORDS DIVISION

USPTO

6/15/2007 2:18:07 PM

PAGE 4/005

Fax Server

:MCDONNELL BOEHNEN HULBERT & BERGHOFF LLP COMPANY:300 S. WACKER DR., STE. 3

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1 06/15/2007 500296831

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Hyundai Syscomm, Inc.	04/27/2004

RECEIVING PARTY DATA

Name:	UTStarcom Korea Limited
Street Address:	San 136-1, Ami-ri, Bubal-eub, Icheon-si
City:	Kyongki-do
State/Country:	KOREA, REPUBLIC OF
Postal Code:	467-701

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	10585586

CORRESPONDENCE DATA

Fax Number:

(312)913-0002

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone:

312-913-0001

Email:

docketing@mbhb.com

Correspondent Name:

McDonnell Boehnen Hulbert & Berghoff LLP

Address Line 1:

300 S. Wacker Dr., Ste. 3100

Address Line 2:

Robert J. Irvine

Address Line 4:

Chicago, ILLINOIS 60606

ATTORNEY DOCKET NUMBER:

05-500-B

NAME OF SUBMITTER:

Robert J. Irvine III

Total Attachments: 49

source=05-500-B-Hyundai_to_UTStarcom_Assignment#page1.tif source=05-500-B-Hyundai_to_UTStarcom_Assignment#page2.tif source=05-500-B-Hyundai_to_UTStarcom_Assignment#page3.tif

source=05-500-B-Hyundai_to_UTStarcom_Assignment#page4.tif source=05-500-B-Hyundai_to_UTStarcom_Assignment#page5.tif source=05-500-B-Hyundai_to_UTStarcom_Assignment#page6.tif source=05-500-B-Hyundai_to_UTStarcom_Assignment#page7.tif source=05-500-B-Hyundai_to_UTStarcom_Assignment#page8.tif source=05-500-B-Hyundai_to_UTStarcom_Assignment#page9.tif source=05-500-B-Hyundai_to_UTStarcom_Assignment#page10.tif source=05-500-B-Hyundai_to_UTStarcom_Assignment#page11.tif source=05-500-B-Hyundai_to_UTStarcom_Assignment#page12.tif source=05-500-B-Hyundai_to_UTStarcom_Assignment#page13.tif source=05-500-B-Hyundai_to_UTStarcom_Assignment#page14.tif source=05-500-B-Hyundai_to_UTStarcom_Assignment#page15.tif source=05-500-B-Hyundai_to_UTStarcom_Assignment#page16.tif source=05-500-B-Hyundal_to_UTStarcom_Assignment#page17.tif source=05-500-B-Hyundai_to_UTStarcom_Assignment#page18.tif source=05-500-B-Hyundai_to_UTStarcom_Assignment#page19.tif source=05-500-B-Hyundal_to_UTStarcom_Assignment#page20.tif source=05-500-B-Hyundai_to_UTStarcom_Assignment#page21.tif source=05-500-B-Hyundai_to_UTStarcom_Assignment#page22.tif source=05-500-B-Hyundai_to_UTStarcom_Assignment#page23.tif source=05-500-B-Hyundai_to_UTStarcom_Assignment#page24,tif source=05-500-B-Hyundai_to_UTStarcom_Assignment#page25.tif source=05-500-B-Hyundai_to_UTStarcom_Assignment#page26.tif source=05-500-B-Hyundal_to_UTStarcom_Assignment#page27.tlf source=05-500-B-Hyundai_to_UTStarcom_Assignment#page28.tif source=05-500-B-Hyundai_to_UTStarcom_Assignment#page29.tif source=05-500-B-Hyundai_to_UTStarcom_Assignment#page30.tif source=05-500-B-Hyundal_to_UTStarcom_Assignment#page31.tif source=05-500-B-Hyundai_to_UTStarcom_Assignment#page32.tif source=05-500-B-Hyundai_to_UTStarcom_Assignment#page33.tif source=05-500-B-Hyundai_to_UTStarcom_Assignment#page34.tif source=05-500-B-Hyundai_to_UTStarcom_Assignment#page35.tif source=05-500-B-Hyundai_to_UTStarcom_Assignment#page36.tif source=05-500-B-Hyundai_to_UTStarcom_Assignment#page37.tif source=05-500-B-Hyundai_to_UTStarcom_Assignment#page38.tif source=05-500-B-Hyundai_to_UTStarcom_Assignment#page39.tif source=05-500-B-Hyundai_to_UTStarcom_Assignment#page40.tif source=05-500-B-Hyundai_to_UTStarcom_Assignment#page41.tif source=05-500-B-Hyundai_to_UTStarcom_Assignment#page42.tif source=05-500-B-Hyundai_to_UTStarcom_Assignment#page43.tif source=05-500-B-Hyundai_to_UTStarcom_Assignment#page44.tif source=05-500-B-Hyundai_to_UTStarcom_Assignment#page45.tif source=05-500-B-Hyundai_to_UTStarcom_Assignment#page46.tif source=05-500-B-Hyundai_to_UTStarcom_Assignment#page47.tif source=05-500-B-Hyundal_to_UTStarcom_Assignment#page48.tif source=05-500-B-Hyundai_to_UTStarcom_Assignment#page49.tif

[제41호서식]

Registered No. 2004 - 6060

NOTARIAL CERTIFICATE

DAE JONG LEGAL CORPORATION

160, Dang Joo-Dong, Jong Ro-Ku, Seoul, Korea



KIM & CHANG

Hannuri Building, 219 Naeja-dong, Jongno-gu, Seoul 110-053, Korea Telephone: (822) 764-8855 / 2122-3900 Fax: (822) 741-0328 / 745-5954 / 763-7434 E-Mail: all@ip.kimchang.com

I, the undersigned, hereby d	declare:
------------------------------	----------

- (1) That my name, mailing address and citizenship are as stated below;
- (2) That I am knowledgeable in both English and Korean, which are the languages used in relation to the Assignment filed with the Korean Intellectual Property Office; and
- (3) That I have translated said Assignment filed with the Korean Intellectual Property Office into English, a copy of which is attached hereto, and believe that said translation is a true and complete translation of the aforementioned Korean Assignment.

22nd day of November, 2004

Full name of the translator: LIM, Ji Won Jinon Lin

Signature of the translator: _

Mailing address: c/o Kim & Chang, Hannuri Building, 219 Naeja-dong,

Jongno-gu, Seoul 110-053, Korea, Republic of Korea

Citizenship: Republic of Korea

KIM & CHANG

[Translation]

ASSIGNMENT

By this instrument, <u>HYUNDAI SYSCOMM</u>, <u>INC.</u>, a corporation duly organized and existing under the Laws of Republic of Korea at San 136-1, Ami-ri, Bubal-eub, Icheon-si, Gyeonggi-do 467-701, Republic of Korea do hereby declare that on April 27, 2004 it has assigned and transferred all rights, title and interest in the cases as listed in the attached Schedule I to <u>UTStarcom Korea Limited</u>, a corporation duly organized and existing under the laws of Republic of Korea at San 136-1, Ami-ri, Bubal-eub, Icheon-si, Kyongki-do 467-701, Republic of Korea

IN WITNESS WHEREOF,	
I have set my hand hereto this27	th day of April, 2004.
	Assignor: HYUNDAI SYSCOMM INC.
	By: (SEALED)
	Typed Name: <u>SEONG-IK JANG</u>
	Position: CEO & President

Sc	h	0	1	11	9	•
\sim	11	C	u	u		•

INU.	Norean Patent Application No.
1	1996009524
2	1996025985
3	` 1997007238
4	1997013781
5	1997055585
6	1997055586
7	1997055587
8	1997055588
9	1997060536
10	1997063413
11	1997066033
12	1998004816
13	1998005339
14	1998005341
15	1998005342
16	1998005746
17	1998005748
18	1998005750
19	1998005754
20	1998005756
21	1998005757
22	1998005758
23	1998005759
24	1998005760
25	1998005761
26	1998009741
27	1998009742
28	1998009743
29	1998009744

1/46

Confidential

	· a no a contract of the design of the formal or and the formal or	
30	1998009746	
31	1998009974	
32	1998010163	
33	1998010164	
34	1998010165	
35	1998010166	
36	1998010167	
37	1998012081	
38	1998012281	
39	1998013082	
40	1998013455	ร์ อาการเกียร์ พิวัติสุดิ
41	1998013793	हेराजबारहेर्ज में बेब्बेंब में
42	1998013794	
43	1998014157	
44	1998015007	
45	1998015227	
46	1998015630	
47	1998018666	
48	1998018667	
49	1998018668	
50	1998018669	
51	1998018670	
52	1998018843	
53	1998019773	.
54	1998019774	
55	1998019775	
56	1998019968	
57	1998027638	
58	1998027948	

Confidential

-1401	Notean Latent Application No.
59	1998027958
60	1998028181
61	1998028183
62	1998028375
63	1998033895
64	1998034730
65	1998034816
66	1998034817
67	1998034818
68	1998034819
69	1998034820
70	1998035083
71	1998037282
72	1998037283
73	1998037284
74	1998042230
75	1998042231
76	1998042233
77	1998042234
78	1998042235
79	1998042236
80	1998042241
81	1998042243
82	1998042245
83	1998042247
84	1998042250
85	1998045932
86	1998045933
87	1998045937

1 40; 1	Acrean atent Application 170.
88	1998045938
89	1998048377
90	1998049581
91	1998049584
92	1998052873
93	1998052874
94	1998052875
95	1998052876
96	1998052877
97	1998052878
98	1998052879
99	1998052880
100	1998053384
101	1998055233
102	1998055234
103	1998055238
104	1998055476
105	1998055477
106	1998055478
107	1998055479
108	1998055480
109	1998055481
110	1998055483
111	1998055484
112	1998055487
113	1998057133
114	1998057134
115	1998057486

1998059846

116

	The state of the s
117	1998059850
118	1998059854
119	1998059855
120	1998059856
121	1998059859
122	1998059860
123	1998061658
124	1998061659
125	1998061660
126	1998061661
127	1998061667
128	1998061669
129	1998061670
130	1998061766
131	1998061767
132	1998061768
133	1998062159
134	1998062160
135	1998062161
136	1998062163
137	1998062164
138	1998062165
139	1998062166
140	1998062167
141	1998062185
142	1998062190
143	1998062191
144	1998062198
145	1998062199

	20	

	Norean Fatent Application No.
146	1998062203
147	1998062207
148	1998062779
149	1998062780
150	1998062781
151	1998062783
152	1998062784
153	1998062785
154	1998062787
155	1998062788
156	1998062790
157	1998062792
158	1998062794
159	1998062795
160	1998062796
161	1998062798
162	1998062799
163	1998062800
164	1998062801
165	1998062805
166	1998062806
167	1998062807
168	1998062809
169	1998062811
170	1998062812
171	1998062813
172	1999000293
173	1999000295
174	1999000296

175	1999000297
176	1999000326
177	1999000706
178	1999000707
179	1999000708
180	1999001604
181	1999001609
182	1999003974
183	1999003975
184	1999003977
185	1999004841
186	1999005536
187	1999006956
188	1999006957
189	1999007125
190	1999007561
191	1999008368
192	1999008369
193	1999008370
194	1999008372
195	1999008373
196	1999008548
197	1999009664
198	1999009665
199	1999009666
200	1999009667
201	1999009668
202	1999009669
203	1999009670
	<u> </u>

204 1999009725 205 1999009766 207 1999009769 208 1999009771 209 1999009890 210 1999009892 211 1999009893 212 1999009894 213 1999010187 214 1999010192 215 1999010593 217 1999011565 218 1999011566 219 1999011567 220 1999011568 221 1999012646 222 1999012647 224 1999012647 224 1999012845 226 1999012847 227 1999013025 228 1999013026 230 1999013027 231 1999013030 232 1999013083		
206 1999009766 207 1999009769 208 1999009771 209 1999009890 210 1999009892 211 1999009893 212 1999009894 213 1999010187 214 1999010192 215 1999010593 217 1999011565 218 1999011566 219 1999011567 220 1999011569 222 1999012646 223 1999012647 224 1999012647 225 1999012845 226 1999012847 227 1999013025 228 1999013026 230 1999013027 231 1999013030	204	
207 1999009769 208 1999009771 209 1999009890 210 1999009892 211 1999009893 212 1999009894 213 1999010187 214 1999010192 215 1999010593 217 1999011565 218 1999011567 220 1999011568 221 1999011569 222 1999012646 223 1999012647 224 1999012644 225 1999012845 226 1999012847 227 1999013025 228 1999013026 230 1999013027 231 1999013030	205	1999009727
208 1999009890 210 1999009892 211 1999009893 212 1999009894 213 1999010187 214 1999010192 215 1999010593 216 1999011565 218 1999011567 220 1999011567 221 1999011569 222 1999012646 223 1999012647 224 1999012647 225 1999012845 226 1999012847 227 1999013025 228 1999013026 230 1999013027 231 1999013030	206	1999009766
209 1999009890 210 1999009892 211 1999009893 212 1999009894 213 1999010187 214 1999010192 215 1999010593 217 1999011565 218 1999011567 220 1999011569 222 1999012646 223 1999012647 224 1999012647 225 1999012845 226 1999012847 227 1999013025 228 1999013026 230 1999013027 231 1999013030	207	1999009769
210 1999009892 211 1999009893 212 1999009894 213 1999010187 214 1999010192 215 1999010593 216 1999011565 218 1999011566 219 1999011567 220 1999011569 221 1999012646 223 1999012647 224 1999012845 226 1999012847 227 1999013025 228 1999013026 230 1999013027 231 1999013030	208	1999009771
211 1999009893 212 1999009894 213 1999010187 214 1999010192 215 1999010593 216 1999011565 218 1999011566 219 1999011567 220 1999011569 221 1999012646 223 1999012647 224 1999012845 226 1999012847 227 1999013025 228 1999013026 230 1999013030	209	1999009890
212 1999009894 213 1999010187 214 1999010192 215 1999010593 216 1999011565 218 1999011566 219 1999011567 220 1999011568 221 1999011569 222 1999012646 223 1999012647 224 1999012845 225 1999012847 227 1999013025 228 1999013026 230 1999013027 231 1999013030	210	1999009892
213 1999010187 214 1999010192 215 1999010593 216 1999011565 218 1999011566 219 1999011567 220 1999011568 221 1999012646 222 1999012647 224 1999012694 225 1999012845 226 1999012847 227 1999013025 228 1999013026 230 1999013027 231 1999013030	211	1999009893
214 1999010192 215 1999010193 216 1999010593 217 1999011565 218 1999011566 219 1999011567 220 1999011568 221 1999011569 222 1999012646 223 1999012647 224 1999012694 225 1999012845 226 1999012847 227 1999013025 228 1999013026 230 1999013027 231 1999013030	212	1999009894
215 1999010193 216 1999010593 217 1999011565 218 1999011566 219 1999011567 220 1999011568 221 1999011569 222 1999012646 223 1999012647 224 1999012694 225 1999012845 226 1999012847 227 1999013025 228 1999013026 230 1999013027 231 1999013030	213	1999010187
216 1999010593 217 1999011565 218 1999011566 219 1999011567 220 1999011568 221 1999011569 222 1999012646 223 1999012647 224 1999012694 225 1999012845 226 1999012847 227 1999013025 228 1999013026 230 1999013027 231 1999013030	214	1999010192
217 1999011565 218 1999011566 219 1999011567 220 1999011568 221 1999011569 222 1999012646 223 1999012647 224 1999012694 225 1999012845 226 1999012847 227 1999013025 228 1999013026 230 1999013027 231 1999013030	215	1999010193
218 1999011566 219 1999011567 220 1999011568 221 1999011569 222 1999012646 223 1999012647 224 1999012694 225 1999012845 226 1999012847 227 1999013025 228 1999013026 230 1999013027 231 1999013030	216	1999010593
219 1999011567 220 1999011568 221 1999011569 222 1999012646 223 1999012647 224 1999012694 225 1999012845 226 1999012847 227 1999013025 228 1999013026 230 1999013027 231 1999013030	217	1999011565
220 1999011568 221 1999011569 222 1999012646 223 1999012647 224 1999012694 225 1999012845 226 1999012847 227 1999012850 228 1999013025 229 1999013026 230 1999013027 231 1999013030	218	1999011566
221 1999011569 222 1999012646 223 1999012647 224 1999012694 225 1999012845 226 1999012847 227 1999012850 228 1999013025 229 1999013026 230 1999013027 231 1999013030	219	1999011567
222 1999012646 223 1999012647 224 1999012694 225 1999012845 226 1999012847 227 1999012850 228 1999013025 229 1999013026 230 1999013027 231 1999013030	220	1999011568
223 1999012647 224 1999012694 225 1999012845 226 1999012847 227 1999012850 228 1999013025 229 1999013026 230 1999013027 231 1999013030	221	1999011569
224 1999012694 225 1999012845 226 1999012847 227 1999012850 228 1999013025 229 1999013026 230 1999013027 231 1999013030	222	1999012646
225 1999012845 226 1999012847 227 1999012850 228 1999013025 229 1999013026 230 1999013027 231 1999013030	223	1999012647
226 1999012847 227 1999012850 228 1999013025 229 1999013026 230 1999013027 231 1999013030	224	1999012694
227 1999012850 228 1999013025 229 1999013026 230 1999013027 231 1999013030	225	1999012845
228 1999013025 229 1999013026 230 1999013027 231 1999013030	226	1999012847
229 1999013026 230 1999013027 231 1999013030	227	1999012850
230 1999013027 231 1999013030	228	1999013025
231 1999013030	229	1999013026
	230	1999013027
232 1999013083	231	1999013030
	232	1999013083

233 1999013512 234 1999013515 235 1999015234 236 1999015235 237 1999015237 238 1999015237 239 1999015238 240 1999017263 241 1999017344 242 1999017345 243 1999017582 244 1999017583 246 1999017584 247 1999017665 248 1999017666 249 1999022340 251 1999022341 252 1999022342 253 1999022344 254 1999022345 255 1999022346 256 1999023244 258 1999023245 259 1999023247 261 1999023248	"[
235 1999015234 236 1999015235 237 1999015236 238 1999015237 239 1999015238 240 1999017263 241 1999017345 242 1999017346 243 1999017582 244 1999017583 246 1999017584 247 1999017665 248 1999017666 249 1999022340 251 1999022341 252 1999022342 253 1999022344 254 1999022345 255 1999022346 256 1999022344 258 1999023245 259 1999023247	233	
236 1999015235 237 1999015236 238 1999015237 239 1999015238 240 1999017263 241 1999017344 242 1999017345 243 1999017346 244 1999017582 245 1999017583 246 1999017584 247 1999017665 248 1999017666 249 1999022340 251 1999022341 252 1999022342 253 1999022344 254 1999022345 255 1999022348 257 1999023244 258 1999023245 259 1999023247	234	1999013515
237 1999015236 238 1999015237 239 1999015238 240 1999017263 241 1999017344 242 1999017345 243 1999017346 244 1999017582 245 1999017583 246 1999017584 247 1999017665 248 1999017666 249 1999022339 250 1999022340 251 1999022341 252 1999022342 253 1999022344 254 1999022345 255 1999022346 256 1999023244 258 1999023245 259 1999023247	235	1999015234
238 1999015237 239 1999015238 240 1999017263 241 1999017344 242 1999017345 243 1999017346 244 1999017582 245 1999017583 246 1999017665 248 1999017666 249 1999022339 250 1999022340 251 1999022341 252 1999022342 253 1999022344 254 1999022345 255 1999022348 257 1999023244 258 1999023245 259 1999023247	236	1999015235
239 1999015238 240 1999017263 241 1999017344 242 1999017345 243 1999017346 244 1999017582 245 1999017583 246 1999017584 247 1999017665 248 1999017666 249 1999022339 250 1999022340 251 1999022341 252 1999022342 253 1999022344 254 1999022345 255 1999022348 257 1999023244 258 1999023245 259 1999023247	237	1999015236
240 1999017263 241 1999017344 242 1999017345 243 1999017346 244 1999017582 245 1999017583 246 1999017584 247 1999017665 248 1999022339 250 1999022340 251 1999022341 252 1999022342 253 1999022344 254 1999022345 255 1999022346 256 1999023244 258 1999023245 259 1999023247	238	1999015237
241 1999017344 242 1999017345 243 1999017346 244 1999017582 245 1999017583 246 1999017584 247 1999017665 248 1999017666 249 1999022339 250 1999022340 251 1999022341 252 1999022342 253 1999022344 254 1999022345 255 1999022348 257 1999023244 258 1999023245 259 1999023247	239	1999015238
241 1999017344 242 1999017345 243 1999017346 244 1999017582 245 1999017583 246 1999017584 247 1999017665 248 1999017666 249 1999022339 250 1999022340 251 1999022341 252 1999022342 253 1999022344 254 1999022345 255 1999022348 257 1999023244 258 1999023245 259 1999023247	240	1999017263
243 1999017346 244 1999017582 245 1999017583 246 1999017584 247 1999017665 248 1999017666 249 1999022339 250 1999022340 251 1999022341 252 1999022342 253 1999022344 254 1999022345 255 1999022346 256 1999023244 258 1999023245 259 1999023247	241	
244 1999017582 245 1999017583 246 1999017584 247 1999017665 248 1999017666 249 1999022339 250 1999022340 251 1999022341 252 1999022342 253 1999022344 254 1999022345 255 1999022346 256 1999023244 258 1999023245 259 1999023247	242	1999017345
245 1999017583 246 1999017584 247 1999017665 248 1999017666 249 1999022339 250 1999022340 251 1999022341 252 1999022342 253 1999022344 254 1999022345 255 1999022346 256 1999023244 258 1999023245 259 1999023246 260 1999023247	243	1999017346
246 1999017584 247 1999017665 248 1999017666 249 1999022339 250 1999022340 251 1999022341 252 1999022342 253 1999022344 254 1999022345 255 1999022346 256 1999022348 257 1999023244 258 1999023245 259 1999023246 260 1999023247	244	1999017582
247 1999017665 248 1999017666 249 1999022339 250 1999022340 251 1999022341 252 1999022342 253 1999022344 254 1999022345 255 1999022346 256 1999022348 257 1999023244 258 1999023245 259 1999023246 260 1999023247	245	1999017583
248 1999017666 249 1999022339 250 1999022340 251 1999022341 252 1999022342 253 1999022344 254 1999022345 255 1999022346 256 1999022348 257 1999023244 258 1999023245 259 1999023246 260 1999023247	246	1999017584
249 1999022339 250 1999022340 251 1999022341 252 1999022342 253 1999022344 254 1999022345 255 1999022346 256 1999022348 257 1999023244 258 1999023245 259 1999023246 260 1999023247	247	1999017665
250 1999022340 251 1999022341 252 1999022342 253 1999022344 254 1999022345 255 1999022346 256 1999022348 257 1999023244 258 1999023245 259 1999023246 260 1999023247	248	1999017666
251 1999022341 252 1999022342 253 1999022344 254 1999022345 255 1999022346 256 1999022348 257 1999023244 258 1999023245 259 1999023246 260 1999023247	249	1999022339
252 .1999022342 253 1999022344 254 1999022345 255 1999022346 256 1999022348 257 1999023244 258 1999023245 259 1999023246 260 1999023247	250	1999022340
253 1999022344 254 1999022345 255 1999022346 256 1999022348 257 1999023244 258 1999023245 259 1999023246 260 1999023247	251	1999022341
254 1999022345 255 1999022346 256 1999022348 257 1999023244 258 1999023245 259 1999023246 260 1999023247	252	.1999022342
255 1999022346 256 1999022348 257 1999023244 258 1999023245 259 1999023246 260 1999023247	253	1999022344
256 1999022348 257 1999023244 258 1999023245 259 1999023246 260 1999023247	254	1999022345
257 1999023244 258 1999023245 259 1999023246 260 1999023247	255	1999022346
258 1999023245 259 1999023246 260 1999023247	256	1999022348
259 1999023246 260 1999023247	257	1999023244
260 1999023247	258	1999023245
	259	1999023246
261 1999023248	260	1999023247
	261	1999023248

262	1999023250
263	1999023252
264	1999023253
265	1999023254
266	1999023468
267	1999023469
268	1999023493
269	1999023494
270	1999023495
271	1999023496
272	1999026627
273	1999026628
274	1999026630
275	1999026631
276	1999026632
277	1999026879
278	1999027896
279	1999029121
280	1999029122
281	1999029556
282	1999029557
283	1999029614
284	1999029615
285	1999029616
286	1999029617
287	1999029618
288	1999030070
289	1999030166
290	1999030927

10/46

		in the state of the
291	1999030928	ing the depth of
292	1999033686	
293	1999034098	
294	1999035184	
295	1999035185	
296	1999035405	
297	1999035876	
298	1999036626	
299	1999036627	
300	1999036628	
301	1999036629	
302	1999036630	
303	1999036631	
304	1999036632	•
305	1999036633	
306	1999036634	
307	1999036635	
308	1999036636	
309	1999036637	
310	1999036639	
311	1999036640	
312	1999036679	
313	1999036681	
314	1999036683	
315	1999036684	
316	1999036685	
317	1999036686	
318	1999036687	
319	1999036691	

320 1999036851 321 1999037135 322 1999037136 323 1999037273 324 1999037274 325 1999037275 326 1999037277 328 1999037683 330 1999037684 331 1999037880 332 1999037881 333 1999037882 334 1999037908 336 1999038031 337 1999038032 338 1999039035 340 1999039035 340 1999039037 342 1999039087 343 1999039088 344 1999039089 345 1999039090 346 1999039092 348 1999039093		The state of the s
322 1999037136 323 1999037273 324 1999037274 325 1999037275 326 1999037277 328 1999037278 329 1999037684 331 1999037830 332 1999037881 333 1999037882 334 1999037883 335 1999037908 336 1999038031 337 1999038032 338 199903860 339 1999039035 340 1999039037 342 1999039087 343 1999039088 344 1999039089 345 1999039090 346 1999039092	320	
323 1999037273 324 1999037274 325 1999037275 326 1999037277 328 1999037278 329 1999037683 330 1999037684 331 1999037830 332 1999037881 333 1999037882 334 1999037883 335 1999037908 336 1999038031 337 1999038860 339 1999039035 340 1999039036 341 1999039037 342 1999039087 343 1999039089 344 1999039089 345 1999039090 346 1999039092	321	1999037135
324 1999037274 325 1999037275 326 1999037276 327 1999037278 328 1999037278 329 1999037683 330 1999037684 331 1999037830 332 1999037881 333 1999037882 334 1999037908 336 1999038031 337 1999038032 338 1999039035 340 1999039036 341 1999039037 342 1999039087 343 1999039089 344 1999039090 345 1999039091 347 1999039092	322	1999037136
325 1999037275 326 1999037276 327 1999037277 328 1999037278 329 1999037684 331 1999037830 332 1999037881 333 1999037882 334 1999037908 336 1999038031 337 1999038032 338 199903860 339 1999039035 340 1999039036 341 1999039037 342 1999039087 343 1999039089 344 1999039090 345 1999039091 347 1999039092	323	1999037273
326 1999037276 327 1999037277 328 1999037278 329 1999037683 330 1999037684 331 1999037830 332 1999037881 333 1999037882 334 1999037908 335 1999038031 337 1999038032 338 199903860 339 1999039035 340 1999039036 341 1999039037 342 1999039087 343 1999039089 344 1999039090 346 1999039091 347 1999039092	324	1999037274
327 1999037277 328 1999037683 329 1999037684 330 1999037684 331 1999037830 332 1999037881 333 1999037882 334 1999037908 335 1999038031 337 1999038032 338 199903860 339 1999039035 340 1999039036 341 1999039037 342 1999039087 343 1999039089 344 1999039090 345 1999039091 347 1999039092	325	1999037275
328 1999037278 329 1999037683 330 1999037684 331 1999037830 332 1999037881 333 1999037882 334 1999037883 335 1999037908 336 1999038031 337 1999038032 338 1999038860 339 1999039035 340 1999039036 341 1999039037 342 1999039087 343 1999039089 344 1999039090 345 1999039091 347 1999039092	326	1999037276
329 1999037683 330 1999037684 331 1999037830 332 1999037881 333 1999037882 334 1999037883 335 1999037908 336 1999038031 337 1999038032 338 1999038860 339 1999039035 340 1999039036 341 1999039037 342 1999039087 343 1999039088 344 1999039090 345 1999039090 346 1999039091 347 1999039092	327	1999037277
330 1999037684 331 1999037830 332 1999037881 333 1999037882 334 1999037908 335 1999038031 337 1999038032 338 1999038860 339 1999039035 340 1999039036 341 1999039037 342 1999039087 343 1999039088 344 1999039089 345 1999039090 346 1999039091 347 1999039092	328	1999037278
331 1999037830 332 1999037881 333 1999037882 334 1999037883 335 1999037908 336 1999038031 337 1999038032 338 199903860 339 1999039035 340 1999039036 341 1999039037 342 1999039087 343 1999039088 344 1999039089 345 1999039090 346 1999039091 347 1999039092	329	1999037683
332 1999037881 333 1999037882 334 1999037883 335 1999037908 336 1999038031 337 1999038032 338 199903860 339 1999039035 340 1999039036 341 1999039037 342 1999039087 343 1999039088 344 1999039089 345 1999039090 346 1999039092	330	1999037684
333 1999037882 334 1999037883 335 1999037908 336 1999038031 337 1999038032 338 1999038860 339 1999039035 340 1999039036 341 1999039037 342 1999039087 343 1999039088 344 1999039089 345 1999039090 346 1999039091 347 1999039092	331	1999037830
334 1999037883 335 1999037908 336 1999038031 337 1999038032 338 1999038860 339 1999039035 340 1999039036 341 1999039037 342 1999039087 343 1999039088 344 1999039089 345 1999039090 346 1999039091 347 1999039092	332	1999037881
335 1999037908 336 1999038031 337 1999038032 338 1999038860 339 1999039035 340 1999039036 341 1999039037 342 1999039087 343 1999039088 344 1999039089 345 1999039090 346 1999039091 347 1999039092	333	1999037882
336 1999038031 337 1999038032 338 1999038860 339 1999039035 340 1999039036 341 1999039037 342 1999039087 343 1999039088 344 1999039089 345 1999039090 346 1999039091 347 1999039092	334	1999037883
337 1999038032 338 1999038860 339 1999039035 340 1999039036 341 1999039037 342 1999039087 343 1999039088 344 1999039089 345 1999039090 346 1999039091 347 1999039092	335	1999037908
338 1999038860 339 1999039035 340 1999039036 341 1999039037 342 1999039087 343 1999039088 344 1999039089 345 1999039090 346 1999039091 347 1999039092	336	1999038031
339 1999039035 340 1999039036 341 1999039037 342 1999039087 343 1999039088 344 1999039089 345 1999039090 346 1999039091 347 1999039092	337	1999038032
340 1999039036 341 1999039037 342 1999039087 343 1999039088 344 1999039089 345 1999039090 346 1999039091 347 1999039092	338	1999038860
341 1999039037 342 1999039087 343 1999039088 344 1999039089 345 1999039090 346 1999039091 347 1999039092	339	1999039035
342 1999039087 343 1999039088 344 1999039089 345 1999039090 346 1999039091 347 1999039092	340	1999039036
343 1999039088 344 1999039089 345 1999039090 346 1999039091 347 1999039092	341	1999039037
344 1999039089 345 1999039090 346 1999039091 347 1999039092	342	1999039087
345 1999039090 346 1999039091 347 1999039092	343	1999039088
346 1999039091 347 1999039092	344	1999039089
347 1999039092	345	1999039090
	346	1999039091
348 1999039093	347	1999039092
	348	1999039093

349	1999039094	, , , , , , , , , , , , , , , , , , , ,
350	1999039095	
351	1999039433	
352	1999040092	
353	1999040093	
354	1999040094	
355	1999040162	
356	1999040165	
357	1999040166	
358	1999040991	
359	1999042340	
360	1999042341	
361	1999042342	
362	1999042343	
363	1999042344	
364	1999042345	<u> </u>
365	1999042858	
366	1999042859	
367	1999042860	<u> </u>
368	1999042861	
369	1999044287	<u> </u>
370	1999044288	<u> </u>
371	1999044289	
372	1999044290	
373	1999045391	
374	1999045883	_
375	1999046999	
376	1999047168	
377	1999047169	

378	1999047170
379	1999047171
380	1999047172
381	1999047173
382	1999047174
383	1999047175
384	1999047176
385	1999047177
386	1999047179
387	1999047180
388	1999047181
389	1999047182
390	1999047186
391	1999047967
392	1999047977
393	1999047978
394	1999048512
395	1999048513
396	1999049737
397	1999049738
398	1999049739
399	1999049740
400	1999049928
401	1999049929
402	1999049930
403	1999050402
404	1999050403
405	1999050870
406	1999051355

	The second secon
407	1999052678
408	1999052679
409	1999052680
410	1999052681
411	1999052763
412	1999052764
413	1999052765
414	1999053030
415	1999053031
416	1999053033
417	1999053034
418	1999053035
419	1999053039
420	1999053179
421	1999053418
422	1999055154
423	1999055155
424	1999055156
425	1999055157
426	1999055219
427	1999055221
428	1999055222
429	1999055225
430	1999055226
431	1999055487
432	1999055531
433	1999055532
434	1999055533
435	1999056165

436 1999056226 437 1999056227 438 1999056228 439 1999056610 440 1999056611 441 1999056612 442 1999056613 443 1999056923 444 1999058229 447 1999058229 448 1999058231 449 1999059398 450 1999059399 451 1999059710 452 1999059834 453 1999060260 454 1999060263 455 1999060456 456 1999060460 458 1999060461 459 1999061100 460 1999061700 462 1999061745 463 1999061746 464 1999061747		No. Of the second spining a reserving a house benefit as the second spining of the second spining spin
438 1999056228 439 1999056610 440 1999056611 441 1999056612 442 1999056613 443 1999056614 444 1999056923 445 1999057757 446 1999058229 447 1999058230 448 1999058231 449 1999059398 450 1999059399 451 1999059710 452 1999059834 453 1999060260 454 1999060263 455 1999060456 456 1999060458 457 1999060460 458 1999060461 459 1999061100 460 1999061700 461 1999061745 463 1999061746	436	
439 1999056610 440 1999056611 441 1999056612 442 1999056613 443 1999056923 444 199905923 445 1999057757 446 1999058229 447 1999058230 448 1999059398 450 1999059399 451 1999059399 451 199905934 452 199905934 453 1999060260 454 1999060263 455 1999060456 456 1999060458 457 1999060460 458 199906100 460 1999061103 461 1999061700 462 1999061745 463 1999061746	437	1999056227
440 1999056611 441 1999056612 442 1999056613 443 1999056614 444 1999056923 445 1999057757 446 1999058229 447 1999058230 448 1999059231 449 1999059398 450 1999059399 451 1999059710 452 1999059834 453 1999060260 454 1999060263 455 1999060456 456 1999060458 457 1999060460 458 199906100 460 1999061100 461 1999061745 463 1999061746	438	1999056228
441 1999056612 442 1999056613 443 1999056614 444 1999056923 445 1999057757 446 1999058229 447 1999058230 448 1999059328 450 1999059398 451 1999059399 451 1999059710 452 1999059834 453 1999060260 454 1999060263 455 1999060456 456 1999060458 457 1999060460 458 1999061100 460 1999061103 461 1999061745 463 1999061746	439	1999056610
442 1999056613 443 1999056614 444 1999056923 445 1999057757 446 1999058229 447 1999058230 448 1999058231 449 1999059398 450 1999059399 451 1999059710 452 1999059834 453 1999060260 454 1999060263 455 1999060456 456 1999060458 457 1999060460 458 1999061100 460 1999061103 461 1999061745 463 1999061746	440	1999056611
443 1999056614 444 1999056923 445 1999057757 446 1999058229 447 1999058230 448 1999058231 449 1999059398 450 1999059399 451 1999059710 452 1999059834 453 1999060260 454 1999060263 455 1999060456 456 1999060458 457 1999060460 458 1999060461 459 1999061100 460 1999061700 461 1999061745 463 1999061746	441	1999056612
444 1999056923 445 1999057757 446 1999058229 447 1999058230 448 1999058231 449 1999059398 450 1999059399 451 1999059710 452 1999059834 453 1999060260 454 1999060263 455 1999060456 456 1999060458 457 1999060460 458 1999061100 460 1999061103 461 1999061700 462 1999061745 463 1999061746	442	1999056613
445 1999057757 446 1999058229 447 1999058230 448 1999058231 449 1999059398 450 1999059399 451 1999059710 452 1999059834 453 1999060260 454 1999060263 455 1999060456 456 1999060458 457 1999060460 458 1999060461 459 1999061100 460 1999061700 461 1999061745 463 1999061746	443	1999056614
446 1999058229 447 1999058230 448 1999058231 449 1999059398 450 1999059399 451 1999059710 452 1999059834 453 1999060260 454 1999060263 455 1999060456 456 1999060458 457 1999060460 458 1999061100 460 1999061103 461 1999061700 462 1999061745 463 1999061746	444	1999056923
447 1999058230 448 1999058231 449 1999059398 450 1999059399 451 1999059710 452 1999059834 453 1999060260 454 1999060263 455 1999060456 456 1999060458 457 1999060460 458 1999060461 459 1999061100 460 1999061700 461 1999061700 462 1999061745 463 1999061746	445	1999057757
448 1999058231 449 1999059398 450 1999059399 451 1999059710 452 1999059834 453 1999060260 454 1999060263 455 1999060456 456 1999060458 457 1999060460 458 1999060461 459 1999061100 460 1999061700 461 1999061745 463 1999061746	446	1999058229
449 1999059398 450 1999059399 451 1999059710 452 1999059834 453 1999060260 454 1999060263 455 1999060456 456 1999060458 457 1999060460 458 1999060461 459 1999061100 460 1999061700 461 1999061700 462 1999061745 463 1999061746	447	1999058230
450 1999059399 451 1999059710 452 1999059834 453 1999060260 454 1999060263 455 1999060456 456 1999060458 457 1999060460 458 1999060461 459 1999061100 460 1999061700 461 1999061745 463 1999061746	448	1999058231
451 1999059710 452 1999059834 453 1999060260 454 1999060263 455 1999060456 456 1999060458 457 1999060460 458 1999060461 459 1999061100 460 1999061700 461 1999061745 463 1999061746	449	1999059398
452 1999059834 453 1999060260 454 1999060263 455 1999060456 456 1999060458 457 1999060460 458 1999060461 459 1999061100 460 1999061700 461 1999061700 462 1999061745 463 1999061746	450	1999059399
453 1999060260 454 1999060263 455 1999060456 456 1999060458 457 1999060460 458 1999060461 459 1999061100 460 1999061700 461 1999061745 463 1999061746	451	1999059710
454 1999060263 455 1999060456 456 1999060458 457 1999060460 458 1999060461 459 1999061100 460 1999061700 461 1999061700 462 1999061745 463 1999061746	452	1999059834
455 1999060456 456 1999060458 457 1999060460 458 1999060461 459 1999061100 460 1999061103 461 1999061700 462 1999061745 463 1999061746	453	1999060260
456 1999060458 457 1999060460 458 1999060461 459 1999061100 460 1999061103 461 1999061700 462 1999061745 463 1999061746	454	1999060263
457 1999060460 458 1999060461 459 1999061100 460 1999061103 461 1999061700 462 1999061745 463 1999061746	455	1999060456
458 1999060461 459 1999061100 460 1999061103 461 1999061700 462 1999061745 463 1999061746	456	1999060458
459 1999061100 460 1999061103 461 1999061700 462 1999061745 463 1999061746	457	1999060460
460 1999061103 461 1999061700 462 1999061745 463 1999061746	458	1999060461
461 1999061700 462 1999061745 463 1999061746	459	1999061100
462 1999061745 463 1999061746	460	1999061103
463 1999061746	461	1999061700
	462	1999061745
464 1999061747	463	1999061746
	464	1999061747

. . . #⁷⁷

465 1999062120 466 1999062778 467 1999063735 468 1999066217 469 1999066218 470 1999066219 471 1999066223 472 1999066224 473 1999066347 475 1999066348 476 1999066349 477 1999066350 478 1999067483 480 1999067484 481 1999067485 482 1999067489 483 1999067492 484 1999067495 485 2000001727 486 2000002884 487 200000380 489 2000004807 490 2000004808 491 2000005810 493 2000005940		and the second s
467 1999063735 468 1999066217 469 1999066218 470 1999066219 471 1999066223 472 1999066224 473 1999066347 474 1999066348 476 1999066349 477 1999066350 478 1999067483 480 1999067484 481 1999067485 482 1999067489 483 1999067492 484 1999067495 485 2000001727 486 2000002884 487 200000380 489 2000004807 490 2000004808 491 2000005810	465	
468 1999066217 469 1999066218 470 1999066219 471 1999066223 472 1999066224 473 1999066225 474 1999066347 475 1999066348 476 1999066349 477 1999066350 478 1999067483 480 1999067484 481 1999067485 482 1999067489 483 1999067492 484 1999067495 485 2000001727 486 2000002884 487 200000397 488 200000380 489 2000004807 490 2000004808 491 2000005810	466	1999062778
469 1999066218 470 1999066219 471 1999066223 472 1999066224 473 1999066225 474 1999066347 475 1999066348 476 1999066349 477 1999066350 478 1999067483 480 1999067484 481 1999067485 482 1999067489 483 1999067492 484 1999067495 485 2000001727 486 2000002884 487 200000397 488 2000003380 489 2000004807 490 2000005183 492 2000005810	467	1999063735
470 1999066219 471 1999066223 472 1999066224 473 1999066225 474 1999066347 475 1999066348 476 1999066349 477 1999066350 478 1999067483 480 1999067484 481 1999067485 482 1999067489 483 1999067492 484 1999067495 485 2000001727 486 2000002884 487 2000003380 489 2000004808 491 2000005183 492 2000005810	468	1999066217
471 1999066223 472 1999066224 473 1999066225 474 1999066347 475 1999066348 476 1999066349 477 1999066350 478 1999067483 480 1999067484 481 1999067485 482 1999067489 483 1999067492 484 1999067495 485 2000001727 486 2000002884 487 2000003380 489 2000004807 490 2000004808 491 2000005810	469	1999066218
472 1999066224 473 1999066225 474 1999066347 475 1999066348 476 1999066349 477 1999066350 478 1999067483 480 1999067484 481 1999067485 482 1999067489 483 1999067492 484 1999067495 485 2000001727 486 2000002884 487 2000003097 488 200000380 489 2000004807 490 2000005183 492 2000005810	470	1999066219
473 1999066225 474 1999066347 475 1999066348 476 1999066349 477 1999066350 478 1999066351 479 1999067483 480 1999067484 481 1999067485 482 1999067489 483 1999067492 484 1999067495 485 2000001727 486 2000002884 487 200000397 488 2000003380 489 2000004807 490 2000005183 492 2000005810	471	1999066223
474 1999066347 475 1999066348 476 1999066349 477 1999066350 478 1999066351 479 1999067483 480 1999067484 481 1999067485 482 1999067489 483 1999067492 484 1999067495 485 2000001727 486 2000002884 487 2000003097 488 200000380 489 2000004807 490 2000004808 491 2000005183 492 2000005810	472	1999066224
475 1999066348 476 1999066349 477 1999066350 478 1999066351 479 1999067483 480 1999067484 481 1999067485 482 1999067489 483 1999067492 484 1999067495 485 2000001727 486 2000002884 487 2000003097 488 2000003380 489 2000004807 490 2000004808 491 2000005183 492 2000005810	473	1999066225
476 1999066349 477 1999066350 478 1999066351 479 1999067483 480 1999067484 481 1999067485 482 1999067489 483 1999067492 484 1999067495 485 2000001727 486 2000002884 487 2000003097 488 2000003380 489 2000004807 490 2000004808 491 2000005183 492 2000005810	474	1999066347
477 1999066350 478 1999066351 479 1999067483 480 1999067484 481 1999067485 482 1999067489 483 1999067492 484 1999067495 485 2000001727 486 2000002884 487 2000003097 488 2000003380 489 2000004807 490 2000004808 491 2000005183 492 2000005810	475	1999066348
478 1999066351 479 1999067483 480 1999067484 481 1999067485 482 1999067489 483 1999067492 484 1999067495 485 2000001727 486 2000002884 487 2000003097 488 2000003380 489 2000004807 490 2000004808 491 2000005183 492 2000005810	476	1999066349
479 1999067483 480 1999067484 481 1999067485 482 1999067489 483 1999067492 484 1999067495 485 2000001727 486 2000002884 487 2000003097 488 2000003380 489 2000004807 490 2000004808 491 2000005183 492 2000005810	477	1999066350
480 1999067484 481 1999067485 482 1999067489 483 1999067492 484 1999067495 485 2000001727 486 2000002884 487 2000003097 488 2000003380 489 2000004807 490 2000004808 491 2000005183 492 2000005810	478	1999066351
481 1999067485 482 1999067489 483 1999067492 484 1999067495 485 2000001727 486 2000002884 487 2000003097 488 2000003380 489 2000004807 490 2000004808 491 2000005183 492 2000005810	479	1999067483
482 1999067489 483 1999067492 484 1999067495 485 2000001727 486 2000002884 487 2000003097 488 2000003380 489 2000004807 490 2000004808 491 2000005183 492 2000005810	480	1999067484
483 1999067492 484 1999067495 485 2000001727 486 2000002884 487 2000003097 488 2000003380 489 2000004807 490 2000004808 491 2000005183 492 2000005810	481	1999067485
484 1999067495 485 2000001727 486 2000002884 487 2000003097 488 2000003380 489 2000004807 490 2000004808 491 2000005183 492 2000005810	482	1999067489
485 2000001727 486 2000002884 487 2000003097 488 2000003380 489 2000004807 490 2000004808 491 2000005183 492 2000005810	483	1999067492
486 2000002884 487 2000003097 488 2000003380 489 2000004807 490 2000004808 491 2000005183 492 2000005810	484	1999067495
487 2000003097 488 2000003380 489 2000004807 490 2000004808 491 2000005183 492 2000005810	485	2000001727
488 2000003380 489 2000004807 490 2000004808 491 2000005183 492 2000005810	486	2000002884
489 2000004807 490 2000004808 491 2000005183 492 2000005810	487	2000003097
490 2000004808 491 2000005183 492 2000005810	488	2000003380
491 2000005183 492 2000005810	489	2000004807
492 2000005810	490	2000004808
	491	2000005183
493 2000005940	492	2000005810
	493	2000005940

	aprended the second
494	2000005942
495	2000005984
496	2000005985
497	2000005986
498	2000005987
499	2000005988
500	2000005989
501	2000005990
502	2000008064
503	2000008267
504	2000008268
505	2000008269
506	2000008270
507	2000008271
508	2000008272
509	2000008273
510	2000008274
511	2000008432
512	2000008433
513	2000008434
514	2000008435
515	2000008436
516	2000008976
517	2000008977
518	2000008978
519	2000008979
520	2000008980
521	2000009019
522	2000009193

	The state of the s
523	2000009600
524	2000009604
525	2000009605
526	2000010121
527	2000010463
528	2000010470
529	2000010471
530	2000010473
531	2000010687
532	2000011289
533	2000011454
534	2000011455
535	2000011752
536	2000012235
537	2000012439
538	2000012440
539	2000012441
540	2000012442
541	2000012443
542	2000012554
543	2000012555
544	2000012557
545	2000014280
546	2000014315
547	2000016016
548	2000016017
549	2000016022
550	2000016024
551	2000016025

	and the second second second second	Harris Harris
552	2000016026	Services of the services
553	2000016027	
554	2000016029	
555	2000016032	
556	2000016033	
557	2000016034	
558	2000016575	
559	2000016578	
560	2000016579	
561	2000016651	
562	2000016948	
563	2000016949	
564	2000017609	
565	2000018586	
566	2000018646	
567	2000021229	
568	2000021231	
569	2000021278	r . sý
570	2000021423	
571	2000021425	
572	2000021426	
573	2000021455	
574	2000021926	
575	2000022265	
576	2000022266	
577	2000022267	
578	2000022268	
579	2000022269	
580	2000022550	

581 2000022551 582 2000022553 583 2000022554 584 2000022900 586 2000022902 587 2000022909 588 2000024687 590 2000024688 591 2000025016 592 2000025018 593 2000025019 594 2000025966 595 2000026433 596 2000026661 598 2000026662 599 2000027032 600 2000027034 601 2000028287 602 2000028383 603 2000030627 605 2000032355 606 2000032357 608 2000034111 609 2000034535		
583 2000022554 584 2000022900 586 2000022902 587 2000022909 588 2000024687 590 2000024688 591 2000025016 592 2000025019 594 2000025966 595 2000026433 596 2000026434 597 2000026661 598 2000027032 600 2000027034 601 2000028383 603 2000030625 604 2000032355 606 2000032357 608 2000034111	581	
584 2000022900 585 2000022902 587 2000022909 588 2000022911 589 2000024687 590 2000024688 591 2000025016 592 2000025019 594 2000025966 595 2000026433 596 2000026661 598 2000026661 599 2000027032 600 2000027034 601 2000028383 603 2000030625 604 2000032355 606 2000032357 608 2000034111	582	2000022553
585 2000022900 586 2000022902 587 2000022909 588 2000022911 589 2000024687 590 2000025016 592 2000025018 593 2000025019 594 2000025966 595 2000026433 596 2000026434 597 2000026661 598 2000027032 600 2000027034 601 2000028287 602 2000028383 603 2000032355 604 2000032355 606 2000032357 608 2000034111	583	2000022554
586 2000022902 587 2000022909 588 2000024687 590 2000024688 591 2000025016 592 2000025019 594 2000025966 595 2000026433 596 2000026661 598 2000026662 599 2000027032 600 2000028287 602 2000028383 603 2000030625 604 2000032355 606 2000032357 608 2000034111	584	2000022555
587 2000022909 588 2000022911 589 2000024687 590 2000025016 591 2000025018 592 2000025019 594 2000025966 595 2000026433 596 2000026661 598 2000026662 599 2000027032 600 2000028287 602 2000028383 603 2000030625 604 2000032355 606 2000032356 607 2000034111	585	2000022900
588 2000022911 589 2000024687 590 2000025016 591 2000025018 592 2000025019 594 2000025966 595 2000026433 596 2000026661 598 2000026662 599 2000027032 600 2000027034 601 2000028287 602 2000028383 603 2000030625 604 2000032355 606 2000032357 608 2000034111	586	2000022902
589 2000024688 590 2000025016 591 2000025018 592 2000025019 593 2000025966 595 2000026433 596 2000026434 597 2000026661 598 2000027032 600 2000027034 601 2000028287 602 2000028383 603 2000030625 604 2000032355 606 2000032357 608 2000034111	587	2000022909
590 2000024688 591 2000025016 592 2000025019 593 2000025966 595 2000026433 596 2000026661 598 2000026662 599 2000027032 600 2000027034 601 2000028287 602 2000028383 603 2000030625 604 2000032355 606 2000032357 608 2000034111	588	2000022911
591 2000025016 592 2000025019 593 2000025966 594 2000026433 596 2000026434 597 2000026661 598 2000027032 600 2000027034 601 2000028287 602 2000028383 603 2000030625 604 2000032355 606 2000032357 608 2000034111	589	2000024687
592 2000025018 593 2000025019 594 2000025966 595 2000026433 596 2000026661 598 2000026662 599 2000027032 600 2000027034 601 2000028287 602 2000028383 603 2000030625 604 2000032355 606 2000032357 608 2000034111	590	2000024688
593 2000025019 594 2000025966 595 2000026433 596 2000026661 598 2000026662 599 2000027032 600 2000027034 601 2000028287 602 2000028383 603 2000030625 604 2000032355 606 2000032357 608 2000034111	591	2000025016
594 2000025966 595 2000026433 596 2000026661 597 2000026662 599 2000027032 600 2000027034 601 2000028287 602 2000028383 603 2000030625 604 2000032355 606 2000032356 607 2000032357 608 2000034111	592	2000025018
595 2000026433 596 2000026434 597 2000026661 598 2000027032 600 2000027034 601 2000028287 602 2000028383 603 2000030625 604 2000032355 606 2000032356 607 2000032357 608 2000034111	593	2000025019
596 2000026434 597 2000026661 598 2000027032 600 2000027034 601 2000028287 602 2000028383 603 2000030625 604 2000032355 606 2000032357 608 2000034111	594	2000025966
597 2000026661 598 2000026662 599 2000027032 600 2000027034 601 2000028287 602 2000028383 603 2000030625 604 2000032355 606 2000032356 607 2000032357 608 2000034111	595	2000026433
598 2000026662 599 2000027032 600 2000027034 601 2000028287 602 2000028383 603 2000030625 604 2000032355 606 2000032356 607 2000032357 608 2000034111	596	2000026434
599 2000027032 600 2000027034 601 2000028287 602 2000028383 603 2000030625 604 2000032355 605 2000032356 607 2000032357 608 2000034111	597	2000026661
600 2000027034 601 2000028287 602 2000028383 603 2000030625 604 2000032355 605 2000032356 607 2000032357 608 2000034111	598	2000026662
601 2000028287 602 2000028383 603 2000030625 604 2000030627 605 2000032355 606 2000032356 607 2000032357 608 2000034111	599	2000027032
602 2000028383 603 2000030625 604 2000030627 605 2000032355 606 2000032356 607 2000032357 608 2000034111	600	2000027034
603 2000030625 604 2000030627 605 2000032355 606 2000032356 607 2000032357 608 2000034111	601	2000028287
604 2000030627 605 2000032355 606 2000032356 607 2000032357 608 2000034111	602	2000028383
605 2000032355 606 2000032356 607 2000032357 608 2000034111	603	2000030625
606 2000032356 607 2000032357 608 2000034111	604	2000030627
607 2000032357 608 2000034111	605	2000032355
608 2000034111	606	2000032356
	607	2000032357
609 2000034535	608	2000034111
	609	2000034535

The same of the sa	The state of the s
610	2000034536
611	2000035273
612	2000035276
613	2000035453
614	2000035455
615	2000035456
616	2000037914
617	2000038323
618	2000038325
619	2000038326
620	2000042357
621	2000042767
622	2000042768
623	2000044110
624	2000047430
625	2000047844
626	2000051257
627	2000051981
628	2000051982
629	2000051986
630	2000052486
631	2000052487
632	2000052509
633	2000052513
634	2000053506
635	2000055647
636	2000055739
637	2000055740
638	2000056181

	The second secon	24
639	2000056182	9
640	2000056183	
641	2000056184	
642	2000059971	
643	2000059972	
644	2000059973	
645	2000059974	
646	2000060365	
647	2000063612	
648	2000063613	
649	2000063614	
650	2000063615	
651	2000064919	
652	2000064920	
653	2000064921	
654	2000064922	
655	2000064923	
656	2000064924	
657	2000064928	
658	2000064929	
659	2000064930	
660	2000064932	
661	2000065109	
662	2000065913	
663	2000065914	
664	2000065915	
665	2000065920	
666	2000066034	
667	2000066091	

Confidential

	Control of the Contro
668	2000066092
669	2000066218
670	2000067638
671	2000067805
672	2000067806
673	. 2000067807
674	2000067808
675	2000067809
676	2000067811
677	2000071224
678	2000073770
679	2000073771
680	2000074210
681	2000074211
682	2000074212
683	2000074213
684	2000074214
685	2000074215
686	2000074216
687	2000074658
688	2000074661
689	2000076897
690	2000080376
691	2000081200
692	2000081201
693	2000081203
694	2000081204
695	2000082218
696	2000082220

	The state of the s
697	2000082221
698	2000082222
699	2000082225
700	2000082227
701	2000082228
702	2000082229
703	2000082230
704	2000082231
705	2000082232
706	2000082233
707	2000082494
708	2000082495
709	2000082496
710	2000082497
711	2000082498
712	2000082896
713	2000082897
714	2000082901
715	2000082903
716	2000084648
717	2000084649
718	2000084650
719	2000084652
720	2000084655
721	2000084656
722	2000084658
723	2000084659
724	2000084660
725	2000085086

726 2000085087 727 2000085094 728 2000085096 729 2000085099 730 2000085100 732 2000085101 733 2000085102 734 2000086505 735 2000086506 736 2000086514 737 2000086519 738 2000087469 740 2000087469 741 2000087479 742 2000087483 743 2000087560 744 2000087565 745 2000087566 746 2000087567 747 2000087596 750 2000087596 750 2000087597 751 2001002658 753 2001002659 754 2001002659 754 2001002660		and the second s
728 2000085096 729 2000085098 730 2000085100 731 2000085101 732 2000085102 734 2000086505 735 2000086506 736 2000086514 737 2000086519 738 2000087469 740 2000087470 741 2000087479 742 2000087483 743 2000087560 744 2000087565 745 2000087567 747 2000087569 748 2000087592 749 2000087596 750 2000087597 751 2001000043 752 2001002658 753 2001002659	726	2000085087
729 2000085098 730 2000085099 731 2000085100 732 2000085101 733 200008505 734 2000086506 735 2000086514 737 2000086519 738 2000087469 740 2000087470 741 2000087479 742 2000087483 743 2000087560 744 2000087565 745 2000087567 747 2000087569 748 2000087592 749 2000087596 750 2000087597 751 2001000043 752 2001002658 753 2001002659	727	2000085094
730 2000085099 731 2000085100 732 2000085101 733 2000085102 734 2000086505 735 2000086506 736 2000086514 737 2000086519 738 2000087469 740 2000087470 741 2000087479 742 2000087483 743 2000087560 744 2000087565 745 2000087566 746 2000087567 747 2000087569 748 2000087592 749 2000087596 750 2000087597 751 2001000043 752 2001002658 753 2001002659	728	2000085096
731 2000085100 732 2000085101 733 2000085102 734 2000086505 735 2000086506 736 2000086514 737 2000086519 738 2000087469 740 2000087470 741 2000087479 742 2000087483 743 2000087560 744 2000087565 745 2000087566 746 2000087567 747 2000087569 748 2000087596 750 2000087597 751 200100043 752 2001002658 753 2001002659	729	2000085098
732 2000085101 733 2000085102 734 2000086505 735 2000086506 736 2000086514 737 2000086519 738 2000087469 740 2000087470 741 2000087479 742 2000087483 743 2000087560 744 2000087565 745 2000087566 746 2000087569 748 2000087592 749 2000087596 750 2000087597 751 2001000043 752 2001002658 753 2001002659	730	2000085099
733 2000085102 734 2000086505 735 2000086506 736 2000086514 737 2000086519 738 2000087469 740 2000087470 741 2000087479 742 2000087560 744 2000087565 745 2000087566 746 2000087567 747 2000087592 749 2000087596 750 2000087597 751 2001000043 752 2001002658 753 2001002659	731	2000085100
734 2000086505 735 2000086506 736 2000086514 737 2000086519 738 2000087469 740 2000087470 741 2000087479 742 2000087483 743 2000087560 744 2000087565 745 2000087566 746 2000087569 748 2000087592 749 2000087596 750 2000087597 751 2001000043 752 2001002658 753 2001002659	732	2000085101
735 2000086506 736 2000086514 737 2000086519 738 2000087469 740 2000087470 741 2000087479 742 2000087483 743 2000087560 744 2000087565 745 2000087567 747 2000087569 748 2000087592 749 2000087596 750 2000087597 751 2001000043 752 2001002658 753 2001002659	733	2000085102
736 2000086514 737 2000086519 738 2000086526 739 2000087469 740 2000087470 741 2000087479 742 2000087483 743 2000087560 744 2000087565 745 2000087566 746 2000087569 748 2000087592 749 2000087596 750 2000087597 751 2001000043 752 2001002658 753 2001002659	734	2000086505
737 2000086519 738 2000087469 740 2000087470 741 2000087479 742 2000087483 743 2000087560 744 2000087565 745 2000087567 747 2000087569 748 2000087592 749 2000087597 751 2001000043 752 2001002658 753 2001002659	735	2000086506
738 2000086526 739 2000087469 740 2000087470 741 2000087479 742 2000087483 743 2000087560 744 2000087565 745 2000087567 747 2000087569 748 2000087592 749 2000087597 750 200100043 752 2001002658 753 2001002659	736	2000086514
739 2000087469 740 2000087470 741 2000087479 742 2000087483 743 2000087560 744 2000087565 745 2000087566 746 2000087567 747 2000087569 748 2000087592 749 2000087596 750 2000087597 751 2001000043 752 2001002658 753 2001002659	737	2000086519
740 2000087470 741 2000087479 742 2000087483 743 2000087560 744 2000087565 745 2000087566 746 2000087567 747 2000087569 748 2000087592 749 2000087596 750 2000087597 751 2001000043 752 2001002658 753 2001002659	738	2000086526
741 2000087479 742 2000087483 743 2000087560 744 2000087565 745 2000087566 746 2000087567 747 2000087569 748 2000087592 749 2000087596 750 2000087597 751 2001000043 752 2001002658 753 2001002659	739	2000087469
742 2000087483 743 2000087560 744 2000087565 745 2000087566 746 2000087567 747 2000087569 748 2000087592 749 2000087596 750 2000087597 751 2001000043 752 2001002658 753 2001002659	740	2000087470
743 2000087560 744 2000087565 745 2000087566 746 2000087567 747 2000087569 748 2000087592 749 2000087596 750 2000087597 751 2001000043 752 2001002658 753 2001002659	741	2000087479
743 2000087560 744 2000087565 745 2000087566 746 2000087567 747 2000087569 748 2000087592 749 2000087596 750 2000087597 751 2001000043 752 2001002658 753 2001002659	742	2000087483
745 2000087566 746 2000087567 747 2000087569 748 2000087592 749 2000087596 750 2000087597 751 200100043 752 2001002658 753 2001002659	743	
746 2000087567 747 2000087569 748 2000087592 749 2000087596 750 2000087597 751 2001000043 752 2001002658 753 2001002659	744	2000087565
747 2000087569 748 2000087592 749 2000087596 750 2000087597 751 2001000043 752 2001002658 753 2001002659	745	2000087566
748 2000087592 749 2000087596 750 2000087597 751 2001000043 752 2001002658 753 2001002659	746	2000087567
749 2000087596 750 2000087597 751 2001000043 752 2001002658 753 2001002659	747	2000087569
750 2000087597 751 2001000043 752 2001002658 753 2001002659	748	2000087592
751 2001000043 752 2001002658 753 2001002659	749	2000087596
752 2001002658 753 2001002659	750	2000087597
753 2001002659	751 .	2001000043
	752	2001002658
754 2001002660	753	2001002659
	754	2001002660

	and the second division in the second divisio
755	2001002661
756	2001002662
757	2001002663
758	2001002664
759	2001002665
760	2001002666
761	2001002871
762	2001003475
763	2001003476
764	2001003477
765	2001003478
766	2001003609
767	2001004858
768	2001006576
769	2001006601
770	2001007529
771	2001007573
772	2001007574
773	2001007575
774	2001007576
775	2001007577
776	2001007721
777	2001008984
778	2001009904
779	2001010768
780	2001011610
781	2001011611
782	2001014395
783	2001014929

The State of

	and the same and t
784	2001015273
785	2001015613
786	2001015614
787	2001015879
788	2001016841
789	2001017919
790	2001017920
791	2001017921
792	2001018697
793	2001018792
794	2001019217
795	2001019218
796	2001019219
797	2001019220
798	2001019222
799	2001022655
800	2001022858
801	2001023845
802	2001023846
803	2001024904
804	2001024905
805	2001025746
806	2001026657
807	2001028400
808	2001028737
809	2001028738
810	2001029380
811	2001029381
812	2001029382

813	2001029659
814	2001029660
815	2001030389
816	2001030390
817	2001030391
818	2001030392
819	2001030394
820	2001030395
821	2001030396
822	2001030490
823	2001030491
824	2001031675
825	2001031999
826	2001032000
827	2001032001
828	2001032002
829	2001032006
830	2001032011
831	2001032012
832	2001032029
833	2001032030
834	2001032031
835	2001032032
836	2001032035
837	2001032040
838	2001032041
839	2001032042
840	2001032043
841	2001032044

842	2001032236
843	2001032237
844	2001032285
845	2001032286
846	2001032287
847	2001032343
848	2001032346
849	2001032349
850	2001032360
851	2001033508
852	2001033663
853	2001033668
854	2001033675
855	2001033676
856	2001033677
857	2001041188
858	2001050456
859	2001050467
860	2001053178
861	2001053180
862	2001053183
863	2001053184
864	2001053186
865	2001053189
866	2001053190
867	2001053191
868	2001053198
869	2001053199
870	2001054034

871	2001054038
872	2001054039
873	2001054044
874	2001070759
875	2001074992
876	2001074993
877	2001074994
878	2001074995
879	2001074996
880	2001074997
881	2001074998
882	2001074999
883	2001075000
884	2001075001
885	2001075002
886	2001075003
887	2001075004
888	2001075005
889	2001075006
890	2001075007
891	2001075008
892	2001075009
893	2001075830
894	2001075847
895	2001075849
896	2001075850
897	2001075851
898	2001075853
899	2001075855

T 700	and the same of th
900	2001075856
901	2001075857
902	2001075858
903	2001075859
904	2001075861
905	2001075866
906	2001075869
907	2001075871
908	2001087807
909	2001087808
910	2001087809
911	2001087810
912	2001087811
913	2001087812
914	2001087813
915	2001087814
916	2001087815
917	2001087816
918	2001087817
919	2001087818
920	2001087819
921	2001087820
922	2001087821
923	2001087822
924	2001087823
925	2001088658
926	2001088659
927	2001088977
928	2001088979

929	2002010434
930	2002010435
931	2002010436
932	2002010437
933	2002011084
934	2002011085
935	2002011086
936	2002011087
937	2002011088
938	2002011089
939	2002011090
940	2002011091
941	2002011092
942	2002011093
943	2002011094
944	2002011095
945	2002016522
946	2002016523
947	2002016524
948	2002016525
949	2002016526
950	2002016527
951	2002016528
952	2002016529
953	2002016530
954	2002016531
955	2002016532
956	2002016533
957	2002016534

...; 💰

And the Assessment of	
958	2002016535
959	2002016536
960	2002016538
961	2002016539
962	2002016540
963	2002016541
964	2002016542
965	2002016543
966	2002016544
967	2002016545
968	2002016546
969	2002016547
970	2002016548
971	2002016549
972	2002016550
973	2002016551
974	2002016552
975	2002016553
976	2002016554
977	2002016555
978	2002016556
979	2002016557
980	2002016558
981	2002016559
982	2002016560
983	2002016591
984	2002017016
985	2002017017
986	2002017018

987 2002017019 988 2002017021 990 2002017022 991 2002017024 993 2002017025 994 2002017027 996 2002017028 997 2002017029 998 2002017030 999 2002017031 1000 2002017032 1001 2002017033 1002 2002017034 1003 2002022477 1004 2002022478 1005 2002022479 1006 2002022480 1007 2002022481 1008 2002022482 1009 2002022483 1010 2002022485 1011 2002022486 1012 2002022386 1013 2002023804 1015 2002023805	desires and the state of	ta a matematika a said said said said said said said s
989 2002017021 990 2002017022 991 2002017024 992 2002017025 994 2002017026 995 2002017028 997 2002017029 998 2002017030 999 2002017031 1000 2002017032 1001 2002017033 1002 2002017034 1003 2002022477 1004 2002022478 1005 2002022479 1006 2002022480 1007 2002022481 1008 2002022482 1009 2002022483 1010 2002022485 1011 2002022486 1012 20020223804		
990 2002017022 991 2002017024 992 2002017025 994 2002017027 996 2002017029 998 2002017030 999 2002017031 1000 2002017032 1001 2002017033 1002 2002017034 1003 2002022477 1004 2002022478 1005 2002022479 1006 2002022480 1007 2002022481 1008 2002022482 1009 2002022483 1010 2002022485 1011 2002022486 1012 20020223804	988	2002017020
991 2002017023 992 2002017024 993 2002017025 994 2002017027 995 2002017028 997 2002017029 998 2002017030 999 2002017031 1000 2002017032 1001 2002017034 1003 2002022477 1004 2002022478 1005 2002022479 1006 2002022480 1007 2002022481 1008 2002022482 1009 2002022483 1010 2002022485 1012 2002022486 1013 2002023804	989	2002017021
992 2002017024 993 2002017025 994 2002017027 995 2002017028 997 2002017029 998 2002017030 999 2002017031 1000 2002017032 1001 2002017033 1002 2002017034 1003 2002022477 1004 2002022478 1005 2002022479 1006 2002022480 1007 2002022481 1008 2002022482 1009 2002022483 1010 2002022485 1012 2002022486 1013 2002023358 1014 2002023804	990	2002017022
993 2002017025 994 2002017027 995 2002017028 997 2002017029 998 2002017030 999 2002017031 1000 2002017032 1001 2002017033 1002 2002017034 1003 2002022477 1004 2002022478 1005 2002022479 1006 2002022480 1007 2002022481 1009 2002022483 1010 2002022485 1011 2002022486 1012 2002022486 1013 2002023804	991	2002017023
994 2002017027 995 2002017028 997 2002017029 998 2002017030 999 2002017031 1000 2002017032 1001 2002017033 1002 2002017034 1003 2002022477 1004 2002022478 1005 2002022479 1006 2002022480 1007 2002022481 1009 2002022483 1010 2002022484 1011 2002022485 1012 2002022486 1013 2002023358 1014 2002023804	992	2002017024
995 2002017027 996 2002017029 997 2002017030 999 2002017031 1000 2002017032 1001 2002017033 1002 2002017034 1003 2002022477 1004 2002022478 1005 2002022479 1006 2002022480 1007 2002022481 1009 2002022483 1010 2002022485 1012 2002022486 1013 2002023358 1014 2002023804	993	2002017025
996 2002017028 997 2002017029 998 2002017031 1000 2002017032 1001 2002017033 1002 2002017034 1003 2002022477 1004 2002022478 1005 2002022479 1006 2002022480 1007 2002022481 1008 2002022482 1009 2002022483 1010 2002022484 1011 2002022485 1012 2002022486 1013 2002023358 1014 2002023804	994	2002017026
997 2002017029 998 2002017031 1000 2002017032 1001 2002017033 1002 2002017034 1003 2002022477 1004 2002022478 1005 2002022479 1006 2002022480 1007 2002022481 1008 2002022482 1009 2002022483 1010 2002022484 1011 2002022485 1012 2002022358 1013 2002023804	995	2002017027
998 2002017030 999 2002017032 1001 2002017033 1002 2002017034 1003 2002022477 1004 2002022478 1005 2002022479 1006 2002022480 1007 2002022481 1008 2002022482 1009 2002022483 1010 2002022485 1012 2002022486 1013 2002023358 1014 2002023804	996	2002017028
999 2002017031 1000 2002017032 1001 2002017033 1002 2002017034 1003 2002022477 1004 2002022478 1005 2002022479 1006 2002022480 1007 2002022481 1008 2002022482 1009 2002022483 1010 2002022484 1011 2002022485 1012 2002022486 1013 2002023358 1014 2002023804	997	2002017029
1000 2002017032 1001 2002017033 1002 2002017034 1003 2002022477 1004 2002022478 1005 2002022479 1006 2002022480 1007 2002022481 1008 2002022482 1009 2002022483 1010 2002022484 1011 2002022485 1012 2002022486 1013 2002023358 1014 2002023804	998	2002017030
1001 2002017033 1002 2002017034 1003 2002022477 1004 2002022478 1005 2002022479 1006 2002022480 1007 2002022481 1008 2002022482 1009 2002022483 1010 2002022484 1011 2002022485 1012 2002022486 1013 2002023358 1014 2002023804	999	2002017031
1002 2002017034 1003 2002022477 1004 2002022478 1005 2002022479 1006 2002022480 1007 2002022481 1008 2002022482 1009 2002022483 1010 2002022484 1011 2002022485 1012 2002022486 1013 2002023358 1014 2002023804	1000	2002017032
1003 2002022477 1004 2002022478 1005 2002022479 1006 2002022480 1007 2002022481 1008 2002022482 1009 2002022483 1010 2002022484 1011 2002022485 1012 2002022486 1013 2002023358 1014 2002023804	1001	2002017033
1004 2002022478 1005 2002022479 1006 2002022480 1007 2002022481 1008 2002022482 1009 2002022483 1010 2002022484 1011 2002022485 1012 2002022486 1013 2002023358 1014 2002023804	1002	2002017034
1005 2002022479 1006 2002022480 1007 2002022481 1008 2002022482 1009 2002022483 1010 2002022484 1011 2002022485 1012 2002022486 1013 2002023358 1014 2002023804	1003	2002022477
1006 2002022480 1007 2002022481 1008 2002022482 1009 2002022483 1010 2002022484 1011 2002022485 1012 2002022486 1013 2002023358 1014 2002023804	1004	2002022478
1007 2002022481 1008 2002022482 1009 2002022483 1010 2002022484 1011 2002022485 1012 2002022486 1013 2002023358 1014 2002023804	1005	2002022479
1008 2002022482 1009 2002022483 1010 2002022484 1011 2002022485 1012 2002022486 1013 2002023358 1014 2002023804	1006	2002022480
1009 2002022483 1010 2002022484 1011 2002022485 1012 2002022486 1013 2002023358 1014 2002023804	1007	2002022481
1010 2002022484 1011 2002022485 1012 2002022486 1013 2002023358 1014 2002023804	1008	2002022482
1011 2002022485 1012 2002022486 1013 2002023358 1014 2002023804	1009	2002022483
1012 2002022486 1013 2002023358 1014 2002023804	1010	2002022484
1013 2002023358 1014 2002023804	1011	2002022485
1014 2002023804	1012	2002022486
	1013	2002023358
1015 2002023805	1014	2002023804
	1015	2002023805

	والانونيان والمسترون والموارد والمسترون أقد ويقوم ليعتب	
1016	2002023806	
1017	2002023807	
1018	2002023808	
1019	2002023809	
1020	2002023810	
1021	2002023811	
1022	2002023812	
1023	2002023813	
1024	2002023814	
1025	2002023815	
1026	2002023816	
1027	2002023817	
1028	2002023818	
1029	2002023819	
1030	2002023820	
1031	2002023821	
1032	2002023822	
1033	2002023823	
1034	2002025027	,
1035	2002030764	The transfer sound
1036	2002030765	
1037	2002030766	
1038	2002030767	
1039	2002030768	
1040	2002030769	
1041	2002030770	
1042	2002030771	
1043	2002030772	
1044	2002030773	

1045 2002030774 1046 2002030775 1047 2002030777 1048 2002030778 1050 2002030779 1051 2002030780 1052 2002030781 1053 2002030782 1054 2002030783 1055 2002030785 1056 2002030785 1058 2002030786 1059 2002051884 1060 2002052104 1061 2002052105 1062 2002052106 1063 2002052107 1064 2002052108 1065 2002052109 1066 2002052110 1067 2002052111 1069 2002052113 1070 2002052115 1071 2002052116	marine desarrantes	Alterentarian and the second second
1047 2002030776 1048 2002030777 1049 2002030779 1051 2002030780 1052 2002030781 1053 2002030782 1054 2002030783 1055 2002030784 1056 2002030785 1057 2002030786 1058 2002042431 1060 2002052104 1061 2002052105 1062 2002052106 1063 2002052107 1064 2002052108 1065 2002052109 1066 2002052110 1067 2002052111 1068 2002052112 1069 2002052114 1070 2002052115		
1048 2002030777 1049 2002030778 1050 2002030780 1051 2002030781 1052 2002030782 1054 2002030783 1055 2002030784 1056 2002030785 1057 2002030786 1058 2002042431 1059 2002051884 1060 2002052104 1061 2002052105 1062 2002052106 1063 2002052107 1064 2002052108 1065 2002052109 1066 2002052110 1067 2002052111 1068 2002052112 1069 2002052113 1070 2002052115	1046	2002030775
1049 2002030778 1050 2002030779 1051 2002030780 1052 2002030781 1053 2002030782 1054 2002030783 1055 2002030785 1057 2002030786 1058 2002042431 1059 2002051884 1060 2002052104 1061 2002052105 1062 2002052106 1063 2002052107 1064 2002052109 1066 2002052110 1067 2002052111 1068 2002052112 1069 2002052114 1070 2002052115	1047	2002030776
1050 2002030779 1051 2002030780 1052 2002030781 1053 2002030782 1054 2002030783 1055 2002030784 1056 2002030785 1057 2002030786 1058 2002042431 1059 2002051884 1060 2002052104 1061 2002052105 1062 2002052106 1063 2002052107 1064 2002052108 1065 2002052109 1066 2002052110 1067 2002052111 1068 2002052112 1069 2002052113 1070 2002052115	1048	2002030777
1051 2002030780 1052 2002030781 1053 2002030782 1054 2002030783 1055 2002030784 1056 2002030785 1057 2002030786 1058 2002042431 1059 2002051884 1060 2002052104 1061 2002052105 1062 2002052106 1063 2002052107 1064 2002052108 1065 2002052109 1066 2002052110 1067 2002052111 1068 2002052112 1069 2002052113 1070 2002052115	1049	2002030778
1052 2002030781 1053 2002030782 1054 2002030783 1055 2002030784 1056 2002030785 1057 2002030786 1058 2002042431 1059 2002051884 1060 2002052104 1061 2002052105 1062 2002052106 1063 2002052107 1064 2002052108 1065 2002052109 1066 2002052110 1067 2002052111 1068 2002052112 1069 2002052113 1070 2002052115	1050	2002030779
1053 2002030782 1054 2002030784 1055 2002030785 1057 2002030786 1058 2002042431 1059 2002051884 1060 2002052104 1061 2002052105 1062 2002052106 1063 2002052107 1064 2002052108 1065 2002052109 1066 2002052110 1067 2002052111 1068 2002052112 1069 2002052114 1070 2002052115	1051	2002030780
1054 2002030783 1055 2002030784 1056 2002030785 1057 2002030786 1058 2002042431 1059 2002051884 1060 2002052104 1061 2002052105 1062 2002052106 1063 2002052107 1064 2002052108 1065 2002052109 1066 2002052110 1067 2002052111 1068 2002052112 1069 2002052113 1070 2002052115	1052	2002030781
1055 2002030784 1056 2002030785 1057 2002030786 1058 2002042431 1059 2002051884 1060 2002052104 1061 2002052105 1062 2002052106 1063 2002052107 1064 2002052108 1065 2002052109 1066 2002052110 1067 2002052111 1068 2002052112 1069 2002052113 1070 2002052115	1053	2002030782
1056 2002030785 1057 2002030786 1058 2002042431 1059 2002051884 1060 2002052104 1061 2002052105 1062 2002052106 1063 2002052107 1064 2002052108 1065 2002052109 1066 2002052110 1067 2002052111 1068 2002052112 1069 2002052113 1070 2002052115	1054	2002030783
1057 2002030786 1058 2002042431 1059 2002051884 1060 2002052104 1061 2002052105 1062 2002052106 1063 2002052107 1064 2002052108 1065 2002052109 1066 2002052110 1067 2002052111 1068 2002052112 1069 2002052113 1070 2002052115	1055	2002030784
1058 2002042431 1059 2002051884 1060 2002052104 1061 2002052105 1062 2002052106 1063 2002052107 1064 2002052108 1065 2002052109 1066 2002052110 1067 2002052111 1068 2002052112 1069 2002052113 1070 2002052115	1056	2002030785
1059 2002051884 1060 2002052104 1061 2002052105 1062 2002052106 1063 2002052107 1064 2002052108 1065 2002052109 1066 2002052110 1067 2002052111 1068 2002052112 1069 2002052113 1070 2002052115	1057	2002030786
1060 2002052104 1061 2002052105 1062 2002052106 1063 2002052107 1064 2002052108 1065 2002052109 1066 2002052110 1067 2002052111 1068 2002052112 1069 2002052113 1070 2002052115	1058	2002042431
1061 2002052105 1062 2002052106 1063 2002052107 1064 2002052108 1065 2002052109 1066 2002052110 1067 2002052111 1068 2002052112 1069 2002052113 1070 2002052114 1071 2002052115	1059	2002051884
1062 2002052106 1063 2002052107 1064 2002052108 1065 2002052109 1066 2002052110 1067 2002052111 1068 2002052112 1069 2002052113 1070 2002052114 1071 2002052115	1060	2002052104
1063 2002052107 1064 2002052108 1065 2002052109 1066 2002052110 1067 2002052111 1068 2002052112 1069 2002052113 1070 2002052114 1071 2002052115	1061	2002052105
1064 2002052108 1065 2002052109 1066 2002052110 1067 2002052111 1068 2002052112 1069 2002052113 1070 2002052114 1071 2002052115	1062	2002052106
1065 2002052109 1066 2002052110 1067 2002052111 1068 2002052112 1069 2002052113 1070 2002052114 1071 2002052115	1063	2002052107
1066 2002052110 1067 2002052111 1068 2002052112 1069 2002052113 1070 2002052114 1071 2002052115	1064	2002052108
1067 2002052111 1068 2002052112 1069 2002052113 1070 2002052114 1071 2002052115	1065	2002052109
1068 2002052112 1069 2002052113 1070 2002052114 1071 2002052115	1066	2002052110
1069 2002052113 1070 2002052114 1071 2002052115	1067	2002052111
1070 2002052114 1071 2002052115	1068	2002052112
1071 2002052115	1069	2002052113
	1070	2002052114
1072 2002052116	1071	2002052115
	1072	2002052116
1073 2002052117	1073	2002052117

1074	2002052118
1075	2002052119
1076	2002052120
1077	2002052121
1078	2002052122
1079	2002052123
1080	2002052124
1081	2002052125
1082	2002052126
1083	2002055758
1084	2002055762
1085	2002055768
1086	2002055771
1087	2002055775
1088	2002055776
1089	2002055777
1090	2002055779
1091	2002055780
1092	2002055782
1093	2002055783
1094	2002055785
1095	2002055788
1096	2002055798
1097	2002055799
1098	2002055801
1099	2002055803
1100	2002055805
1101	2002059437
1102	2002059438

	La contrata de la companya de la contrata del contrata de la contrata del contrata de la contrata del la contrata de la contrata de
1103	2002059439
1104	2002059440
1105	2002059441
1106	2002059442
1107	2002059443
1108	2002059444
1109	2002059445
1110	2002059446
1111	2002059447
1112	2002059448
1113	2002059449
1114	2002059450
1115	2002059451
1116	2002067145
1117	2002067146
1118	2002067147
1119	2002067148
1120	2002067149
1121	2002067150
1122	2002067151
1123	2002067153
1124	2002067154
1125	2002067155
1126	2002067156
1127	2002067157
1128	2002067158
1129	2002067159
1130	2002067160
1131	2002067161

1132	2002067162
1133	2002067163
1134	2002067164
1135	2002067165
1136	2002067166
1137	2002072012
1138	2002073497
1139	2002073929
1140	2002074281
1141	2002075514
1142	2002075515
1143	2002075516
1144	2002075517
1145	2002075518
1146	2002075519
1147	2002075520
1148	2002075521
1149	2002075522
1150	2002075523
1151	2002075524
1152	2002077039
1153	2002077040
1154	2002077041
1155	2002077042
1156	2002077043
1157	2002077044
1158	2002077045
1159	2002085213
1160	2002085214

1161 2002085215 1162 2002085216 1163 2002085217 1164 2002085218 1165 2002085219 1166 2002085220 1167 2002085221 1168 2002085223 1170 2002085223 1171 2002085224 1172 2002085225 1173 2002085226 1174 2002085228 1175 2002085229 1176 2002085230 1177 2002085231 1178 2002085232 1179 2002085233 1180 2002085234 1181 2002085235 1182 2002085236 1183 2002085237 1184 2002085238 1185 2002085239 1186 2002085240 1187 2002085241 1188 2002085242	and artifications	to the best of the section of the se
1163 2002085217 1164 2002085218 1165 2002085219 1166 2002085220 1167 2002085221 1168 2002085222 1169 2002085223 1170 2002085224 1171 2002085225 1172 2002085226 1173 2002085227 1174 2002085228 1175 2002085229 1176 2002085230 1177 2002085231 1178 2002085232 1179 2002085233 1180 2002085234 1181 2002085235 1182 2002085236 1183 2002085237 1184 2002085239 1186 2002085240 1187 2002085241 1188 2002085242		
1164 2002085218 1165 2002085219 1166 2002085220 1167 2002085221 1168 2002085222 1169 2002085223 1170 2002085224 1171 2002085225 1172 2002085226 1173 2002085227 1174 2002085228 1175 2002085229 1176 2002085230 1177 2002085231 1178 2002085232 1179 2002085233 1180 2002085234 1181 2002085235 1182 2002085236 1183 2002085237 1184 2002085239 1185 2002085240 1187 2002085241 1188 2002085242	1162	2002085216
1165 2002085219 1166 2002085220 1167 2002085221 1168 2002085222 1169 2002085223 1170 2002085224 1171 2002085225 1172 2002085226 1173 2002085227 1174 2002085228 1175 2002085229 1176 2002085230 1177 2002085231 1178 2002085232 1179 2002085233 1180 2002085234 1181 2002085235 1182 2002085236 1183 2002085237 1184 2002085239 1185 2002085240 1187 2002085241 1188 2002085242	1163	2002085217
1166 2002085220 1167 2002085221 1168 2002085222 1169 2002085223 1170 2002085224 1171 2002085225 1172 2002085226 1173 2002085227 1174 2002085228 1175 2002085229 1176 2002085230 1177 2002085231 1178 2002085232 1179 2002085233 1180 2002085234 1181 2002085235 1182 2002085236 1183 2002085237 1184 2002085239 1185 2002085240 1187 2002085241 1188 2002085242	1164	2002085218
1167 2002085221 1168 2002085222 1169 2002085223 1170 2002085224 1171 2002085225 1172 2002085226 1173 2002085227 1174 2002085228 1175 2002085229 1176 2002085230 1177 2002085231 1178 2002085232 1179 2002085233 1180 2002085234 1181 2002085235 1182 2002085236 1183 2002085237 1184 2002085238 1185 2002085239 1186 2002085240 1187 2002085242	1165	2002085219
1168 2002085222 1169 2002085223 1170 2002085224 1171 2002085225 1172 2002085226 1173 2002085227 1174 2002085228 1175 2002085229 1176 2002085230 1177 2002085231 1178 2002085232 1179 2002085233 1180 2002085234 1181 2002085235 1182 2002085236 1183 2002085237 1184 2002085239 1185 2002085240 1187 2002085242	1166	2002085220
1169 2002085223 1170 2002085224 1171 2002085225 1172 2002085226 1173 2002085227 1174 2002085228 1175 2002085229 1176 2002085230 1177 2002085231 1178 2002085232 1179 2002085233 1180 2002085234 1181 2002085235 1182 2002085236 1183 2002085237 1184 2002085238 1185 2002085239 1186 2002085240 1187 2002085242	1167	2002085221
1170 2002085224 1171 2002085225 1172 2002085226 1173 2002085227 1174 2002085228 1175 2002085229 1176 2002085230 1177 2002085231 1178 2002085232 1179 2002085233 1180 2002085234 1181 2002085235 1182 2002085236 1183 2002085237 1184 2002085238 1185 2002085239 1186 2002085240 1187 2002085242	1168	2002085222
1171 2002085225 1172 2002085226 1173 2002085227 1174 2002085228 1175 2002085229 1176 2002085230 1177 2002085231 1178 2002085232 1179 2002085233 1180 2002085234 1181 2002085235 1182 2002085236 1183 2002085237 1184 2002085238 1185 2002085239 1186 2002085240 1187 2002085241 1188 2002085242	1169	2002085223
1172 2002085226 1173 2002085227 1174 2002085228 1175 2002085229 1176 2002085230 1177 2002085231 1178 2002085232 1179 2002085233 1180 2002085234 1181 2002085235 1182 2002085236 1183 2002085237 1184 2002085239 1186 2002085240 1187 2002085241 1188 2002085242	1170	2002085224
1173 2002085227 1174 2002085228 1175 2002085229 1176 2002085230 1177 2002085231 1178 2002085232 1179 2002085233 1180 2002085234 1181 2002085235 1182 2002085236 1183 2002085237 1184 2002085238 1185 2002085239 1186 2002085240 1187 2002085241 1188 2002085242	1171	2002085225
1174 2002085228 1175 2002085229 1176 2002085230 1177 2002085231 1178 2002085232 1179 2002085233 1180 2002085234 1181 2002085235 1182 2002085236 1183 2002085237 1184 2002085238 1185 2002085239 1186 2002085240 1187 2002085241 1188 2002085242	1172	2002085226
1175 2002085229 1176 2002085230 1177 2002085231 1178 2002085232 1179 2002085233 1180 2002085234 1181 2002085235 1182 2002085236 1183 2002085237 1184 2002085238 1185 2002085239 1186 2002085240 1187 2002085241 1188 2002085242	1173	2002085227
1176 2002085230 1177 2002085231 1178 2002085232 1179 2002085233 1180 2002085234 1181 2002085235 1182 2002085236 1183 2002085237 1184 2002085238 1185 2002085239 1186 2002085240 1187 2002085241 1188 2002085242	1174	2002085228
1177 2002085231 1178 2002085232 1179 2002085233 1180 2002085234 1181 2002085235 1182 2002085236 1183 2002085237 1184 2002085238 1185 2002085239 1186 2002085240 1187 2002085241 1188 2002085242	1175	2002085229
1178 2002085232 1179 2002085233 1180 2002085234 1181 2002085235 1182 2002085236 1183 2002085237 1184 2002085238 1185 2002085239 1186 2002085240 1187 2002085241 1188 2002085242	1176	2002085230
1179 2002085233 1180 2002085234 1181 2002085235 1182 2002085236 1183 2002085237 1184 2002085238 1185 2002085239 1186 2002085240 1187 2002085241 1188 2002085242	1177	2002085231
1180 2002085234 1181 2002085235 1182 2002085236 1183 2002085237 1184 2002085238 1185 2002085239 1186 2002085240 1187 2002085241 1188 2002085242	1178	2002085232
1181 2002085235 1182 2002085236 1183 2002085237 1184 2002085238 1185 2002085239 1186 2002085240 1187 2002085241 1188 2002085242	1179	2002085233
1182 2002085236 1183 2002085237 1184 2002085238 1185 2002085239 1186 2002085240 1187 2002085241 1188 2002085242	1180	2002085234
1183 2002085237 1184 2002085238 1185 2002085239 1186 2002085240 1187 2002085241 1188 2002085242	1181	2002085235
1184 2002085238 1185 2002085239 1186 2002085240 1187 2002085241 1188 2002085242	1182	2002085236
1185 2002085239 1186 2002085240 1187 2002085241 1188 2002085242	1183	2002085237
1186 2002085240 1187 2002085241 1188 2002085242	1184	2002085238
1187 2002085241 1188 2002085242	1185	2002085239
1188 2002085242	1186	2002085240
	1187	2002085241
1189 2002085243	1188	2002085242
2002063243	1189	2002085243

1190 2002085244 1191 2002085245 1192 2002087474 1193 2002087481 1194 2002087486 1195 2002087491 1196 2002087492 1198 2002087493 1199 2002087494 1200 2002087495 1201 2002087499 1202 2002087504 1204 2002087505 1205 2003001719 1206 2003012883 1207 2003012884 1208 2003012885 1209 2003012886 1210 2003012888 1212 2003012889 1213 2003012890 1214 2003012892 1215 2003012893 1217 2003012894 1218 2003012895	والمتالية والمتالية والمتالية	And the second s
1192 2002087474 1193 2002087481 1194 2002087486 1195 2002087488 1196 2002087491 1197 2002087492 1198 2002087493 1199 2002087494 1200 2002087495 1201 2002087499 1202 2002087504 1204 2002087505 1205 2003001719 1206 2003012883 1207 2003012884 1208 2003012885 1209 2003012886 1210 2003012887 1211 2003012889 1213 2003012890 1214 2003012892 1215 2003012893 1217 2003012894		2002085244
1193 2002087481 1194 2002087486 1195 2002087488 1196 2002087491 1197 2002087492 1198 2002087493 1199 2002087494 1200 2002087495 1201 2002087498 1202 2002087504 1203 2002087505 1205 2003001719 1206 2003012883 1207 2003012884 1208 2003012885 1209 2003012886 1210 2003012888 1211 2003012889 1212 2003012890 1214 2003012892 1215 2003012893 1217 2003012894	1191	2002085245
1194 2002087486 1195 2002087488 1196 2002087491 1197 2002087492 1198 2002087493 1199 2002087494 1200 2002087495 1201 2002087498 1202 2002087504 1203 2002087505 1205 2003001719 1206 2003012883 1207 2003012884 1208 2003012885 1209 2003012886 1210 2003012888 1211 2003012889 1213 2003012890 1214 2003012892 1215 2003012893 1217 2003012894	1192	2002087474
1195 2002087488 1196 2002087491 1197 2002087492 1198 2002087493 1199 2002087494 1200 2002087495 1201 2002087498 1202 2002087504 1203 2002087505 1204 2003001719 1206 2003012883 1207 2003012884 1208 2003012885 1209 2003012886 1210 2003012888 1211 2003012889 1213 2003012890 1214 2003012891 1215 2003012893 1217 2003012894	1193	2002087481
1196 2002087491 1197 2002087492 1198 2002087493 1199 2002087494 1200 2002087495 1201 2002087498 1202 2002087504 1203 2002087505 1204 2002087505 1205 2003001719 1206 2003012883 1207 2003012884 1208 2003012885 1209 2003012886 1210 2003012888 1211 2003012889 1213 2003012890 1214 2003012892 1215 2003012893 1217 2003012894	1194	2002087486
1197 2002087492 1198 2002087494 1200 2002087495 1201 2002087498 1202 2002087499 1203 2002087504 1204 2002087505 1205 2003001719 1206 2003012883 1207 2003012884 1208 2003012885 1209 2003012886 1210 2003012888 1211 2003012888 1212 2003012899 1213 2003012891 1215 2003012893 1216 2003012894	1195	2002087488
1198 2002087493 1199 2002087494 1200 2002087495 1201 2002087498 1202 2002087499 1203 2002087504 1204 2002087505 1205 2003001719 1206 2003012883 1207 2003012884 1208 2003012885 1209 2003012886 1210 2003012888 1212 2003012889 1213 2003012890 1214 2003012892 1215 2003012893 1217 2003012894	1196	2002087491
1199 2002087494 1200 2002087495 1201 2002087498 1202 2002087499 1203 2002087504 1204 2002087505 1205 2003001719 1206 2003012883 1207 2003012884 1208 2003012885 1209 2003012886 1210 2003012887 1211 2003012888 1212 2003012889 1213 2003012890 1214 2003012892 1215 2003012893 1217 2003012894	1197	2002087492
1200 2002087495 1201 2002087498 1202 2002087499 1203 2002087504 1204 2002087505 1205 2003001719 1206 2003012883 1207 2003012884 1208 2003012885 1209 2003012886 1210 2003012887 1211 2003012888 1212 2003012889 1213 2003012890 1214 2003012891 1215 2003012893 1217 2003012894	1198	2002087493
1201 2002087498 1202 2002087499 1203 2002087504 1204 2002087505 1205 2003001719 1206 2003012883 1207 2003012884 1208 2003012885 1209 2003012886 1210 2003012887 1211 2003012888 1212 2003012889 1213 2003012890 1214 2003012892 1215 2003012893 1217 2003012894	1199	2002087494
1202 2002087499 1203 2002087504 1204 2002087505 1205 2003001719 1206 2003012883 1207 2003012884 1208 2003012885 1209 2003012886 1210 2003012887 1211 2003012888 1212 2003012889 1213 2003012890 1214 2003012892 1215 2003012893 1217 2003012894	1200	2002087495
1203 2002087504 1204 2002087505 1205 2003001719 1206 2003012883 1207 2003012884 1208 2003012885 1209 2003012886 1210 2003012887 1211 2003012888 1212 2003012889 1213 2003012890 1214 2003012891 1215 2003012892 1216 2003012894	1201	2002087498
1204 2002087505 1205 2003001719 1206 2003012883 1207 2003012884 1208 2003012885 1209 2003012886 1210 2003012887 1211 2003012888 1212 2003012889 1213 2003012890 1214 2003012891 1215 2003012892 1216 2003012894	1202	2002087499
1205 2003001719 1206 2003012883 1207 2003012884 1208 2003012885 1209 2003012886 1210 2003012887 1211 2003012888 1212 2003012889 1213 2003012890 1214 2003012891 1215 2003012892 1216 2003012894	1203	2002087504
1206 2003012883 1207 2003012884 1208 2003012885 1209 2003012886 1210 2003012887 1211 2003012888 1212 2003012889 1213 2003012890 1214 2003012891 1215 2003012892 1216 2003012894	1204	2002087505
1207 2003012884 1208 2003012885 1209 2003012886 1210 2003012887 1211 2003012888 1212 2003012889 1213 2003012890 1214 2003012891 1215 2003012892 1216 2003012893 1217 2003012894	1205	2003001719
1208 2003012885 1209 2003012886 1210 2003012887 1211 2003012888 1212 2003012889 1213 2003012890 1214 2003012891 1215 2003012892 1216 2003012893 1217 2003012894	1206	2003012883
1209 2003012886 1210 2003012887 1211 2003012888 1212 2003012889 1213 2003012890 1214 2003012891 1215 2003012892 1216 2003012893 1217 2003012894	1207	2003012884
1210 2003012887 1211 2003012888 1212 2003012889 1213 2003012890 1214 2003012891 1215 2003012892 1216 2003012893 1217 2003012894	1208	2003012885
1211 2003012888 1212 2003012889 1213 2003012890 1214 2003012891 1215 2003012892 1216 2003012893 1217 2003012894	1209	2003012886
1212 2003012889 1213 2003012890 1214 2003012891 1215 2003012892 1216 2003012893 1217 2003012894	1210	2003012887
1213 2003012890 1214 2003012891 1215 2003012892 1216 2003012893 1217 2003012894	1211	2003012888
1214 2003012891 1215 2003012892 1216 2003012893 1217 2003012894	1212	2003012889
1215 2003012892 1216 2003012893 1217 2003012894	1213	2003012890
1216 2003012893 1217 2003012894	1214	2003012891
1217 2003012894	1215	2003012892
	1216	2003012893
1218 2003012895	1217	2003012894
	1218	2003012895

1219 2003012896 1220 2003012897 1221 2003018544 1222 2003018545 1223 2003018546 1224 2003018547 1225 2003018548 1226 2003018550 1228 2003018551 1229 2003018552 1230 2003018553 1231 2003018554 1232 2003018556 1234 2003018557 1235 2003030067 1236 2003034421 1237 2003034422 1238 2003034424 1240 2003034425 1241 2003034426 1242 2003034427 1243 2003034429 1244 2003034430 1245 2003034431 1247 2003034432		
1221 2003018544 1222 2003018545 1223 2003018546 1224 2003018547 1225 2003018548 1226 2003018550 1228 2003018550 1229 2003018551 1229 2003018553 1231 2003018554 1232 2003018555 1233 2003018556 1234 2003018557 1235 2003030067 1236 2003034421 1237 2003034422 1238 2003034423 1239 2003034424 1240 2003034425 1241 2003034426 1242 2003034427 1243 2003034429 1244 2003034430 1245 2003034431		
1222 2003018545 1223 2003018546 1224 2003018547 1225 2003018548 1226 2003018550 1228 2003018551 1229 2003018552 1230 2003018553 1231 2003018555 1232 2003018555 1233 2003018556 1234 2003018557 1235 2003030067 1236 2003034421 1237 2003034422 1238 2003034423 1239 2003034424 1240 2003034426 1241 2003034427 1243 2003034428 1244 2003034429 1245 2003034430 1246 2003034431	1220	2003012897
1223 2003018546 1224 2003018547 1225 2003018548 1226 2003018549 1227 2003018550 1228 2003018551 1229 2003018552 1230 2003018553 1231 2003018554 1232 2003018555 1233 2003018556 1234 2003018557 1235 2003030067 1236 2003034421 1237 2003034422 1238 2003034423 1239 2003034424 1240 2003034426 1241 2003034426 1242 2003034427 1243 2003034429 1244 2003034430 1245 2003034431	1221	2003018544
1224 2003018547 1225 2003018548 1226 2003018549 1227 2003018550 1228 2003018551 1229 2003018552 1230 2003018553 1231 2003018554 1232 2003018555 1233 2003018556 1234 2003018557 1235 2003030067 1236 2003034421 1237 2003034422 1238 2003034423 1239 2003034424 1240 2003034425 1241 2003034426 1242 2003034427 1243 2003034429 1244 2003034430 1245 2003034431	1222	2003018545
1225 2003018548 1226 2003018550 1227 2003018550 1228 2003018551 1229 2003018552 1230 2003018553 1231 2003018554 1232 2003018556 1233 2003018557 1235 2003030067 1236 2003034421 1237 2003034422 1238 2003034423 1239 2003034424 1240 2003034425 1241 2003034426 1242 2003034427 1243 2003034429 1245 2003034431	1223	2003018546
1226 2003018549 1227 2003018550 1228 2003018551 1229 2003018552 1230 2003018553 1231 2003018554 1232 2003018555 1233 2003018556 1234 2003018557 1235 2003030067 1236 2003034421 1237 2003034422 1238 2003034423 1239 2003034424 1240 2003034425 1241 2003034426 1242 2003034427 1243 2003034429 1244 2003034430 1245 2003034431	1224	2003018547
1227 2003018550 1228 2003018551 1229 2003018552 1230 2003018553 1231 2003018554 1232 2003018555 1233 2003018556 1234 2003030067 1235 2003030421 1237 2003034424 1238 2003034423 1239 2003034424 1240 2003034426 1241 2003034426 1242 2003034427 1243 2003034429 1244 2003034430 1245 2003034431	1225	2003018548
1228 2003018551 1229 2003018552 1230 2003018553 1231 2003018554 1232 2003018555 1233 2003018556 1234 2003030067 1235 20030304421 1237 2003034422 1238 2003034423 1239 2003034424 1240 2003034425 1241 2003034426 1242 2003034427 1243 2003034429 1244 2003034430 1245 2003034431	1226	2003018549
1229 2003018552 1230 2003018553 1231 2003018554 1232 2003018555 1233 2003018556 1234 2003018557 1235 2003030067 1236 2003034421 1237 2003034422 1238 2003034423 1239 2003034424 1240 2003034425 1241 2003034426 1242 2003034427 1243 2003034428 1244 2003034429 1245 2003034431	1227	2003018550
1230 2003018553 1231 2003018554 1232 2003018555 1233 2003018556 1234 2003018557 1235 2003030067 1236 2003034421 1237 2003034422 1238 2003034423 1239 2003034424 1240 2003034425 1241 2003034426 1242 2003034427 1243 2003034428 1244 2003034429 1245 2003034431	1228	2003018551
1231 2003018554 1232 2003018555 1233 2003018556 1234 2003018557 1235 2003030067 1236 2003034421 1237 2003034422 1238 2003034423 1239 2003034424 1240 2003034425 1241 2003034426 1242 2003034427 1243 2003034428 1244 2003034429 1245 2003034431	1229	2003018552
1232 2003018555 1233 2003018556 1234 2003018557 1235 2003030067 1236 2003034421 1237 2003034422 1238 2003034423 1239 2003034424 1240 2003034425 1241 2003034426 1242 2003034427 1243 2003034428 1244 2003034429 1245 2003034430 1246 2003034431	1230	2003018553
1233 2003018556 1234 2003018557 1235 2003030067 1236 2003034421 1237 2003034422 1238 2003034423 1239 2003034424 1240 2003034425 1241 2003034426 1242 2003034427 1243 2003034428 1244 2003034429 1245 2003034430 1246 2003034431	1231	2003018554
1234 2003018557 1235 2003030067 1236 2003034421 1237 2003034422 1238 2003034423 1239 2003034424 1240 2003034425 1241 2003034426 1242 2003034427 1243 2003034428 1244 2003034429 1245 2003034431	1232	2003018555
1235 2003030067 1236 2003034421 1237 2003034422 1238 2003034423 1239 2003034424 1240 2003034425 1241 2003034426 1242 2003034427 1243 2003034428 1244 2003034429 1245 2003034431	1233	2003018556
1236 2003034421 1237 2003034422 1238 2003034423 1239 2003034424 1240 2003034425 1241 2003034426 1242 2003034427 1243 2003034428 1244 2003034429 1245 2003034430 1246 2003034431	1234	2003018557
1237 2003034422 1238 2003034423 1239 2003034424 1240 2003034425 1241 2003034426 1242 2003034427 1243 2003034428 1244 2003034429 1245 2003034430 1246 2003034431	1235	2003030067
1238 2003034423 1239 2003034424 1240 2003034425 1241 2003034426 1242 2003034427 1243 2003034428 1244 2003034429 1245 2003034430 1246 2003034431	1236	2003034421
1239 2003034424 1240 2003034425 1241 2003034426 1242 2003034427 1243 2003034428 1244 2003034429 1245 2003034430 1246 2003034431	1237	2003034422
1240 2003034425 1241 2003034426 1242 2003034427 1243 2003034428 1244 2003034429 1245 2003034430 1246 2003034431	1238	2003034423
1241 2003034426 1242 2003034427 1243 2003034428 1244 2003034429 1245 2003034430 1246 2003034431	1239	2003034424
1242 2003034427 1243 2003034428 1244 2003034429 1245 2003034430 1246 2003034431	1240	2003034425
1243 2003034428 1244 2003034429 1245 2003034430 1246 2003034431	1241	2003034426
1244 2003034429 1245 2003034430 1246 2003034431	1242	2003034427
1245 2003034430 1246 2003034431	1243	2003034428
1246 2003034431	1244	2003034429
	1245	2003034430
1247 2003034432	1246	2003034431
	1247	2003034432

1	Control of the same of the sales of the sale
1248	2003034433
1249	2003034434
1250	2003034435
1251	2003034436
1252	2003034437
1253	2003034438
1254	2003034439
1255	2003034440
1256	2003034441
1257	2003034442
1258	2003034797
1259	2003034798
1260	2003034799
1261	2003034800
1262	2003034801
1263	2003034802
1264	2003034803
1265	2003034804
1266	2003034805
1267	2003034806
1268	2003035277
1269	2003035278
1270	2003035279
1271	2003035280
1272	2003035282
1273	2003035283
1274	2003035285
1275	2003035286
1276	2003035287

. : .. . :

rive for	Market and the second section of the second sec
1277	2003035294
1278	2003050916
1279	2003051149
1280	2003051150
1281	2003051151
1282	2003051152
1283	2003051153
1284	2003051154
1285	2003051155
1286	2003051156
1287	2003051157
1288	2003051158
1289	2003051159
1290	2003051160
1291	2003051161
1292	2003051162
1293	2003051163
1294	2003051164
1295	2003051165
1296	2003051166
1297	2003051167
1298	2003051168
1299	2003051456
1300	2003051457
1301	2003051462
1302	2003051466
1303	2003051470
1304	2003051471
1305	2003051472

تمنز . . .

1306	2003051475
1307	2003051476
1308	2003051480
1309	2003066875
1310	2003066878
1311	2003067731
1312	2003067732
1313	2003067733
1314	2003067735
1315	2003067736
1316	2003067737
1317	2003067738
1318	2003068390
1319	2004002973
1320	2004002977
1321	2004002978
1322	2004002979
1323	2004002980
1324	2004002981
1325	2004002982
1326	2004002983
1327	2004002984
1328	2004002986

46/46 Confidential

EXHIBIT 1

金·張 法律事務所 KIM & CHANG

서울시 증로구 신문로 1 가 226 홍국생명빌딩 9 층 우편번호 110-786 전화: (02) 764-8855 / 2122-3900 Fax: (02) 745-5954 / 741-0328 / 763-7434 E-Mail: all@ip.kimchang.com

2006년 12월 1일

수 신: 박 정 희님

경기도 이천시 부발읍 아미리 산 136-1 (우. 467-860)

제 목: 미국 특허청 제출용 서명서류 송부의 건 (U.S. Serial No. 10/585.586)

<u>당소 정리 번호</u>: GP048360 (FE251546)

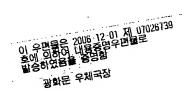
귀하의 사업에 무궁한 발전을 기원합니다.

당소는 유티스타콤 코리아 유한회사의 대리인인 김&장 특허법률사무소 입니다.

귀하께서는 2002년도에 현대전자산업 주식회사/현대시스콤 재직 중에 개발하신 아래의 발명에 대한 권리를 당시 소속회사의 직무발명 양도규정에 따라 소속회사에 양도하였으며, 현재이 발명에 대해 특허를 받을 수 있는 권리는 귀하의 소속회사로부터 당소의 의뢰인인 유티스타콤 코리아 유한회사로 이전되어 있는 상태에 있습니다. 이 발명에 대하여는 한국 특허출원을 하고 이어서 현재 미국 특허출원을 진행 중에 있는데, 미국의 특허제도에 따르면 출원시 발명자가 출원인이 되어야 하기 때문에 미국 특허청은 특허를 받을 수 있는 권리가 당소의 의뢰인에게 있다 하더라도 첨부된 바와 같은 서류에 출원인으로서 발명자가 직접 서명한 후 이를 제출하도록 요구하고 있습니다.

첨부된 서류 중 양도중(assignment)과 관련해서는, 귀하께서 이미 이 발명에 대한 권리를 양도한 상태이기 때문에 첨부된 양도중은 이를 확인하는 절차에 불과하며 새로이 무언가를 양도하는 것은 아님을 알려드립니다. 발명자 선언서(declaration)는 귀하께서 이 발명의 발명자임을 선서하는 내용으로 되어 있습니다.

이와 같은 사정으로 첨부 서류를 보내드리오니 <u>서명 후 당소로 반송하여 주시기를</u> 부탁드립니다. 반송은 퀵서비스(착불) 등 귀하께서 편한 방법으로 아래의 당소 주소로 해 주시고 어떤 경우에는 당소에서 비용을 부담할 것이오니 비용 영수증 등도 함께 반송하여 주시면 감사하겠습니다.





반송 주소: 서울시 종로구 신문로 1가 226 홍국생명빌딩 9층 김.장특허법률사무소 (우편번호 110-786)

발명의 명칭: ATM SWITCHED ROUTER FOR TRANSMITTING IP PACKET DATA

-담당자: 김 주 영 변리사/ 윤 지 홍 변리사

-전화: 02-2122-3561 / 02-2122-3515

-E-mail: jykim1@ip.kimchang.com

변리사 윤 지 홍



첨부있음.



金·張 法律事務所 KIM & CHANG

Hungkuk Life Insurance Building, 9F, 226 Sinmunno 1-ga, Jongno-gu, Seoul 110-786, Korea Telephone: (822) 764-8855 / 2122-3900 Fax: (822) 741-0328 / 745-5954 / 763-7434 E-Mail: all@ip.kimchang.com

December 1, 2006

To. PARK, Jung Hee

San 136-1, Ami-ri, Bubal-eub, Icheon-si, Gyeonggi-do 467-860, Republic of Korea

Re. Declaration and Power of Attorney and Assignment to be filed with U.S.

Patent and Trademark Office (U.S. Serial No. 10/585,586)

K&C Ref.: GP048360/FE251546

I hope your business is prospering.

I am a patent attorney for a law firm, Kim & Chang, and contacting you on behalf of my client UTStarcom Korea Limited.

You had assigned your invention as identified on the next page to your former company in 2002, which was conceived when you were working for Hyundai Electronics Industries, Co., Ltd./ Hyundai Syscomm, Inc. under the provisions of the employee's invention compensation policy of the company. Therefore, the right to receive patent for the invention was transferred to the former company. Recently, the right to receive patent was transferred to our client, UTStarcom Korea Limited, hereinafter referred to as "UTSK" from your former company. With respect to this invention, a Korean patent application was filed and its counterpart U.S. patent application has recently been filed with the U.S. Patent and Trademark Office. According to the U.S. Patent law, the inventor is only entitled to be an applicant for a patent application. Therefore, although the right to receive patent has been transferred to our client, UTSK, the U.S. Patent and Trademark Office requires filing of documents as enclosed herewith which must be signed by the inventor.

With regard to the assignment, please be informed that signing the enclosed assignment does not mean that you newly transfer something another to somebody, it merely means confirming that you had already assigned the right to receive patent in 2002. As for the Declaration, the signing the declaration means that you are declaring that you are the

GWANG WHA MOON POST OFFICE- CONTENTS CERTIFIED MAIL CERTIFICATE NO. 07026739, 2006-12-01 [Translation]

true and sole inventor of this invention.

As explained above, I enclose herewith these documents. Please sign and date the marked portions and return them to us via courier, registered mail or whatever is convenient for you. Any costs to be incurred in this connection are surely responsible to our side. Please send us any receipts for payment in return.

Return Address: Hungkuk Life Insurance Building, 9F, 226 Sinmunno 1-ga, Jongno-gu, Seoul 110-786, Korea

Title of Invention: ATM SWITCHED ROUTER FOR TRANSMITTING IP PACKET DATA

-Contact Person: Attorney Joo-Young Kim /

Attorney Jee Hong YOON

-Telephone: 02-2122-3561 / 02-2122-3515

-E-mail: jykim1@ip.kimchang.com

Attorney Jee Hong YOON (seal)

Enclosure(s)

HYUNDAI SYSCOMM

社 外 秘

			-	직무	발당	병 신	고서	4	신고	일 : 2002년	<u>크 11월 30일</u>	
		업무코드		승인권자	춷	. 검토			업무코드		슝인권자	
발	결	주발명자	검토	팀장	장		<u></u> <u></u> <u></u>		기안	검토	승인	
명	재	4.		2/2	관리고		저 ==	0	2	GARA		
	직위/성영	사원/박정희	1	차장/정성현		/	ō \$,	wo to	PL FORT	, ,	
실	일 자	11/30	1	11/30		관리번호		¥ ^				
<u> </u>	보존년한		0,1,2,3,5,10,		<u> </u>			보존년한	 		1,2,3 대외비	
				에 의거하								
	발명의	의 명칭		witched R								
발	발명		정상 ^조 2. 시스템	5 switche 역으로 수형 생간 IFCA- 생간 ENLA- 니능.	y되는지 ENLA <-	의 기능. > ENLA-II	FCA 연결	시 IP Pac	ket 전송	기능.	÷01	
명 자	관련야	ROJECT명	HAMS-5 s	AMS-5 switched router 개발								
	실시	상 황	□ 착상 🖥 설계완료 🛛 시험(중,완료) 🗆 사업화(준비중,실시중)									
재 사 항	본발 발표			표 또는 발표 예정)일:20		인 경우 빝	표예정 표(예정 . 관련	•	결논문등	미 旣발 기입 요명	i	
	선행특	력하자료	국 내 외 국									
	출원	원완급	■ 보 □ 지	통 급>(일이		급출원 유					
1	외=	급출원	□ 유	(이유:)	■ 무	
	KEY	WORD										
	접	수 일	2007년1	월76일	대리	인 70	MA	전담자	관리번호	Mood	-12-0064.	
법		H출원	忆 특히	네 🛮 실:	용 🛭	공개기보		출원보류(이유:)	
제		11 중 전	심사청	구 🗆	유 12	무	전략특허	PROJECT명		23		
특 허	01.5	국출원		유	이 무		출원	변동급		B		
허	- H-	도달전	심의여	부 ㅁ	유 🛭	무	*[내리인 특히	명세서즉	학성 참조/	·항*	
부	출	□ 개별국	출원 🛚	EP0출원 🛭	PCT盏	원 [사무소	자체 국내를	출원 🎷	툑허팀검토	후 국내출원	
1 71	원 15	-위		5순위			국내외	동시출원			, A	
재	국 2등	-위		6순위		검	OK				See See	
사	가 3등	는위		7순위		1				, S.,		
항	선 4년	-위		8순위		의						
	정비	コ				견						

HYUNDAI SYSCOMM

社 外 秘

				111 120				
	< 발명 당	평가내용 >						
	구 분	내 용 _	평	가점수				
	-	단순 조합 기술임	. 1점					
	기 술 성	약간 높은 수준을 요하는 기술임	e	· 3점				
		고도의 수준을 요하는 기술임		5점				
	:	이론상 실현은 가능하나, 실험계획은 없슴		0 1점				
		테스트 하려면 관련기술의 발전이 요구됨		2점				
	실현가능성	테스트중이거나 예정임		3점				
		양호한 테스트 결과 얻음(자료첨부 가능)		5점				
,		현재 사업화 준비중 또는 실시중임	Q	7점				
발	효과	개선된 효과의 수준은?	□ 3정 12	2점 🛭 1점				
명	74 TH	(공정 단순화, Yield, Cost 등의 측면)	0 00 5					
실		기술공개로 타사 권리확보를 방어하는 수준임		1점				
장	발명중요도	양산에 적용(예정) 가능한 발명임	Ø	/ 3점				
וכ		반드시 필요한 독점 기술임		5점				
재		평가결과	(/	· (´) 점				
사 항	주)※상기	 발명 평가표는 반드시 실장이 직접 기재하시기 바랍L						
	※"실	현가능성"란에서 5점,7점에 해당된 발명은 증빙 자료가	반드시 필요	합니다.				
	Ж평기	l률 완료하신후 평가결과룔 기입 바랍니다.						
	< 외국출	원 평가내용 >						
	발명의	★ 적용제품:	*복수제품에 적용되는 경우 전부					
	적용제품	*관련기술: 	기재하시기 바라며, 향후 적용					
	현 황	*적용시기:	제품경우 예	상시점을 기재요망				
		□ 절대 필요		밀희망국가				
		□ 국내출원후 1년간 관망	1순위					
		□ 필요 없음	2순위					
	:	□ 개별국출원, □ EPO출원, □ PCT출원	3순위					
		<u>기술적축면</u>	4순위					
			5순위					
	평가내용		6순위 7순위					
			/ 문위 8순위	·				
		경제적측면		평가자				
		<u> </u>	성명:	0-1/4				
			직위:					
			서명:					

373 3	P. A.		1 3 1 3 L C	BASTA							社 外 秘
	는 명 반	성명	(한글) 박 정희			(Soft War	e)	개발 (Group (네트	트웍 개발)실
			(한문) 朴 正禧			직위 사원	뢴	사번	H26771	TEL (3040)
	1		(영문) Park Jun	g Hee		주민등록No		7-	40320-1222320)	
		E-mail	mirine@hysyscomm.com	주소	(467-7	01) 경기도 이천시	부발	을 아미리	산 136-1	서 명	- 4:
	辿		(한글)			()	개발 (Group ()실
	명 자	성명	(한문)			직위		사번		TEL ()
	2		(영문)	·		주민등록No			_		
발 명 자		E-mail		주소	(–)			***	서 명	
	박	성명	(한글)		:	()	개발 (Group ()실
인 적 사 항	발 명 자 3		(한문)			직위		사번		TEL ()
사 항			(영문)	· · · · · · · · · · · · · · · · · · ·		주민등록No			_		
		E-mail		주소	(-)				서 명	
	떈	성명	(한글)			()	개발 (Group ()실
	명자		(한문)			직위	·	사번		TEL ()
	4		(영문)	······································		주민등록No			_	· !	
		E-mail		주소	(-)				서 명	
	발		(한글)			()	개발 (Group (·)실
	명 자	성명	(한문)			직위	1 .	사번		TEL ()
	5		(영문)	1 1		주민등록No					,
		E-mail		주소	() :				서 명	
	발		(한글)			()	개발 (Group (r)실
	발명자	성명	(한문) 			직위	1	사번		TEL ()
	6		(영문)			주민등록No			_		
		E-mail		주소	(-)				서 명	

^{㈜1.}주소는 상세히 기재하시고, E-mail은 반드시 *회사계정*으로 기재하시기 바람.

^{2.}영문기재시 Fullname을 기재하시기 바람.

Note

H	YU	JN		1 SYS (<u></u>		С	onfidential
				Employ	vee'	\overline{SD}	er	cla	ratic	n	of	Inve	ntion		
				T			-				_			ite: Novemb	er 30. 2002
		П	Work Cod	<u></u>		roving				$\neg \Gamma$			Work		Approving
(E)	<u> </u>	<u>.</u> }			Auth	hority	le E	2	Reviewe	er		Έ	Code	 	Authority
San	Approval	<u>.</u>	Primary Inventor	Reviewer	Appro	oved by	订	盟国			目	Approval	Drafter	Reviewer	Approved by
Invention Team	₹	•	Signed	-	Sig	zned	n-th	Maintenance Team			Patent Team	Ψ	signed	signed	signed
venti	Positio Nan		SW/Jung I PARK	Неа	CJ/JEC S.H.	ONG,			/		aten	Position / Name	SW/LEE, Chun Mi	DL/YOON, Hyoung Jin	
In	Dat	te	Nov.27		Nov	v. 30		Con	trol No.		اسط	Date			
	Years		0	, 1, 2, 3, 5, 10, Pen	manent		Γ					Years in	1, 3, 5, 10, P	Security	1, 2, 3,
Unde	Stora r the pr	,,,		mployee's invention		ensation	1 00	liev, L	request to	proce	•d wii	Storage th the filing/r		Rating my invention	Confidential
	•			ernational registr	•	CHOWITC.	Po-	11031	equesc.	proces			tgiati ation 5.	my mrease.	All'4 to acoig
	1	Fitle of Inventi		Function to test II	P packet ¹	transmis	sion	betwe	en HAMS	S-5 sw	ritched	l routers by m	eans of ENLA	and IFCA	
tor	Summary of the Invention			 To test if data routers; To transmit IP; 	The present invention provides the following functions: 1. To test if data transmission/reception functions of ENLA and IFCA are normally operated between HAMS-5 switched routers; 2. To transmit IP packets when IFCA-ENLA and ENLA-IFCA links are set up between systems; and, 3. To transmit IP packets when ENLA-IFCA-SOLA and SOLA-IFCA-ENLA links are set up between systems.									IS-5 switched	
nven	Name(s) of Related Projects		1	Development of HAMS-5 switched router											
by In	Status of the Embodiment		☐ Conception												
Statement by Inventor	Publication Status of the Invention			 ☑ Unpublished ☐ Expected to be Published ※ ☐ Published Earlier ※ ※ If checked, please specify the (scheduled) date of publication and related dissertations. [(Scheduled) Date of Publication: Related dissertations:] 											
štat	Ĺ,	Prior A	4-4	Korean											
العجا	L	FIIO	.,,	Foreign											
		iling To	·	■ Standard					Reason for	r Urge	ent				
	<u> </u>		£1	□ Urgent → (Wit	hin	day	<u>s)</u>	i) Filing							
	For	reign F	Filing	☐ Yes (Reason:) E No		···
	ı ı	Key Wo	ord												
	Dat	te of Re	eceipt	November 30,	2002		Agen	it	Phoeni: off	ix pate: Tice		Hyunda Syscomm F		CM2002-12-0	0064
គ្នោ	Ko	rean F	Filing	☑ Patent ☐ Uti	•)um	al of To	echnical Dis	isclosu)	ıre				
Statement by Patent Team				Request for Examination		□Yes	E	No		ategic for the		nt Project ention		23	
ent				□ Ye	es [□ No	-			Filir	ng Rat	ting		В	
Pa	For	reign F	"iling	Deliberation		ΟY	 Yes		l No	Π	*	Remarks for	Agents writin	g the specificat	tion*
à			☐ Direct N	lational Filing	□ EPO I	Filing	_	PCT F	iling			tic filing with		-	
lg	Designating Countries to File	<u> </u>	t Priority	1		Priority	-т						Patent Team R		
E	unt		d Priority	-	+	Priority	-			103		aneous Korear K	n & Foreign Fil	ing	
tat	g Co File		d Priority	1		Priority	\rightarrow			, s					
الككا	natin		Priority	+	+	Priority	-+			Reviewer's	Opinion				
	esign			 		11101,				\ \frac{2}{6}	ට්				
- 1	, 🛏	1 '	Note	l.					'	i	ı				

	< Evaluation o	f the Invention>								
	Category	Eva	luation Grade							
		Simple technology		☐ 1 point						
	Technology	Slightly higher technology		☑ 3 point						
		Advanced technology		☐ 5 point						
		Theoretically possible to implement, but has no plan for testing			□ 1 point					
	Possible	Developments in related technologies are required first for testing			☐ 2 point					
	Implementation	Currently testing or planning to test			☐ 3 point					
		Tested and obtained satisfactory results (Attach Documents)			☐ 5 point					
		Preparing or currently implementing into one's business			☑ 7 point					
	Effects	What is the level of improvement? (Simplification of processes, yield, cost etc.)		□ 3	図 2 □ 1 point					
E E		Defending the rights in disclosing the technology			□ 1 point					
ı Te	Importance	Adaptable (or scheduled) for mass production			☑ 3 point					
tioi		Absolutely necessary to obtain exclusive technology	☐ 5 point							
Ven		Evaluation Result								
Statement by Manager of Invention Team	Note: * The Inventor The Evaluation fo		sibility for							
by N	Status of	* Applied Product:	cases applied to multiple							
nent	products to which the	* Related Technology:	produ	fucts, list all product names. future cases to be applied,						
tater	invention was applied	* Applied Period:		the estimated period.						
1922			Г	esignatio	on of Countries					
		□ Absolutely necessary	1st F	riority						
		☐ Observe for a year after filing domestically ☐ Not necessary	2nd l	Priority						
			3rd I	Priority						
		☐ Direct National Filing ☐ EPO Filing ☐ PCT Filing	4th F	riority						
		U Direct National Filing U Pro Filing U Pol Filing	5th F	riority						
	Evaluation	Technological Factor	6th F	riority						
			7th F	riority						
			8th F	riority						
		Economical Factor		Ev	aluator					
			Name Positi Signa	on:						

	Primary Inventor		(Korean) 박 정 희			(S/W) D	eve	lopment (Group (Net	work) Team	
		Name	(Chinese) 朴 正 禧		Position SW			Employee H26771		Tel (8040)		
			(English) Park Jung Hee		R	Residence ID 740320-122				0320-1222	2320	
	Pri	E-mail	mirine@hysyscomm.com	Addı	ress San 136-1, Ami-ri, Bubal-eub, Icheon-si, Gyeonggi-do 467-701					Signature	signed	
			(Korean)			()	Dev	elopmen	t Group () Tea	m
		Name	(Chinese)		Posi	tion			ployee D No.		Tel ()
			(English)		Resi	dence I	D			-		%
		E-mail		Addr	ess					Signature		
			(Korean)		,	()	Dev	elopmen'	t Group () Tea	m
Inventor Information		Name	(Chinese)		Posi	tion			ployee D No.		Tel ()
			(English)		Resi	dence I	D					%
lform		E-mail	Addr			ress					Signature	
tor Ir	0r	Name	(Korean)			()	Dev	elopmen	t Group () Tear	m
Inven	Joint Inventor		(Chinese)		Posi	tion			ployee D No.		Tel ()
	int I		(English)		Resi	dence I	D					%
)ſ	E-mail		Addr	ess						Signature	
			(Korean)			()	Dev	elopmen	t Group () Tear	m
		Name	(Chinese)		Posi	tion			Employe ID No.	e	Tel ()
			(English)		Resi	dence I	D					%
		E-mail		Addr	ess						Signature	
			(Korean)			()	Dev	elopmen	Group () Tear	n
		Name	(Chinese)		Posi	tion			Employe ID No.	e	Tel ()
			(English)		Resi	dence I	D				_	%
Notes		E-mail	addross and a mail addross	Addr	_						Signature	

Note: 1. The full address and e-mail address are required.
2. Write the full name in English.

HYUNDAI SYSCOMM

社 外 秘

발명의 명세서

1. 발명의 명칭

발명의 실질적 내용에 대해 가장 적절히 표현할수 있는 명칭을 간결하고 명확하게 기재하되 약자는 가급적 피해주시기 바람.

HAMS-5 switched router의 IFCA(Ip Forwarding Control Board Assembly)-ENLA(Ethernet Link Board Assembly) <-> ENLAEthernet Link Board Assembly)-IFCA(Ip Forwarding Control Board Assembly) 를 통한 IFCA의 ROUTE기능과 ENLA의 Enternet switching기능에 의한 IP 서비스

2. 발명의 상세한 설명

1)산업상의 이용분야

발명이 무엇에 관한 것이며,어느 기술분야에 적용되는지를 기재하고,타 기술 분야에서도 활용이 가능하면 그 기술분야도 기재하시기 바람

- 1. 위 발명은 IP 서비스 기능을 이용한 HAMS-5간의 각 node들 간에 Enternet 서비스를 수행.
- 2. HAMS-5기능들중에 Ethernet서비스를 할 수 있도록 Router사이에 Ethernet관련 서비스에 적용된다.
- 3. Router끼리 Ethernet으로 Path를 설정하지 않고 Atm으로 Path를 연결하여 보다 빠르고 다양한 서비스 제공이 가능하다.

2)종래기술의 설명 및 그 문제점

- *본 발명이 속하는 기술분야에서 본 발명과 연관되는 종래기술이 어떻게 실시되는지 기술적 구성이나 개요를 비교적 상세히 설명하고.그 문제를 기재하기 바람.
- *본 발명과 관련된 참고문헌이나 특허공보가 있으면 문헌명이나 공보번호를 기재하고, 고 자료를 본 명세서에 첨부하시기 바람.

종래의 기술은 ENLA 자체, 또는 IFCA 자체에 대해 기능 시험을 하는 단계였다.

자체 기능도 되지 않는 상황이었고 이와 같은 경우에 ENLA 자체내부 디바이스,

IFCA 내부 디바이스에 대한 검증만 수행한다.

이로 인해 ENLA, IFCA간에 연결되는 경로는 검증하지 못하는 제한이 있다. 그리고 실질적인 Ethernet 서비스 기능을 시험하지 못하는 제약이 있다.



HYUNDA! SYSCOMM

社 外 秘

3)종래 문제점을 해결하기 위한 본 발명의 기술적 원리

- *본 발명에서 상기와 같은 기술적 문제점을 어떻게 해결하고 있는지 그 해결책의 요지만을 기재하고, 그 상세한 설명은 다음항에 기재하기 바람.
- *어떤 효과를 지닌 어떤기술을 사용하여 어떤 문제점을 해결하였다는 등
- 1. 종래의 기술적 문제를 해결하기 위해 ENLA, IFCA간의 Atm Path 시험 경로를 구성.
- 2. IFCA, SOLA간의 Atm Path 시험 경로 구성.
- 3. MP(Main Processor)에서 네트웍에 대한 정보를 설정하여 IFCA에게 네트웍 정보를 설정.
- 4. ENLA에서 관리 하는 각 Node들의 Mac_Address를 Table로 유지하여 Mac_Switching 기능이 되도록 설정.
- 5. IFCA에서는 ENLA, SOLA와 Atm-Path 연결 설정을 수행하고 네트웍 정보를 구성.
- 6. IFCA 의 Default Routing table을 Sola로 정하여 ATM Path를 통하여 다른 Router로 데이타를 보낼수 있도록 한다.
 - 이를 통해 ENLA-IFCA-SOLA <-> SOLA-IFCA-ENLA 에 이르는 경로에 대한 데이터 전송 기능 수행을 수행한다.

4)본 발명의 구성 및 그 전반적인 동작설명

*본 발명은 본 발명이 속하는 기술분야 또는 연관된 기술분야에 종사하는 기술자라면 누구라도 실시할수 있을 정도로 상세하고도 정확한 표현으로 기재하시기 바람.

- 1. IFCA(Ip Forwarding Control Board Assembly)
 - 1.1 메인 프로세서(MP)에서 Router간에 Routing정보를 주고 받을 수 있는 Path를 ENLA 가상의 네크웍 정보를 IFCA에 설정.
 - 1.2 ENLA Port에 연결되는 각 Node들의 GateWay를 설정.
 - 1.3 IFCA가 네트웍 정보를 받아 IP Routing할수 있는 서비스 준비를 하고 ENLA Port에 연결되는 각 Node둘의 GateWay를 설정한다.
- 2. ENLA(Ethernet Link Board Assembly)
 - 2.1 ENLA에서는 각 node들로부터 전달되는 Source Mac_Address를 table로 관리한다.
 - 2.2 ENLA에서 관리하는 Mac_Address table은 timer를 두고 들어 오지 않는 node에 대해서는 Table에서 삭제한다.
 - 2.3 ENLA에서는 IFCA가 보내주는 Packet의 Destination Mac_Address를 보고 어느 Port 로 보낼지 판단하여 해당 Mac_Address가 등록된 Port로 Packet을 보낸다.
- 3. 기본적인 동작 예.

IFCA, ENLA의 기본적인 setting이 끝났을때

- 3.1 어느 Node에서 다른 Router의 다른 network를 가진 Node와 통신하고자 한다.
- 3.2 처음에 Node에서 연결하고자 하는 Node에게 Packet을 던진다.
- 3.3 이 Packet은 Enla를 타고 Atm-Switch를 타고 IFCA로 들어 간다.
- 3.4 IFCA는 가지고 있는 Routing table을 참조 하여 어디로 보낼지를 결정한다.
- 3.5 IFCA가 다시 ENLA로 보낸 Packet은 다른쪽 Router의 ENLA로 들어 간다.
- 3.6 Atm-Switch를 거쳐 다시 IFCA로 Packet이 전달되고 IFCA에서는 어디로 보낼지 결정한다. 🦠
- 3.7 Packet은 IFCA에서 ENLA로 보내게 된다.
- 3.7 Packet은 IFCA에서 ENLA도 모내게 된다. 3.8 ENLA에는 Packet에 있는 destination mac_address를 보고 Mac_Address Table에서
- 3.9 찾은 mac_address에 해당하는 Port로 Packet을 보내게 된다.

Hyundai syscomm

社 外 秘

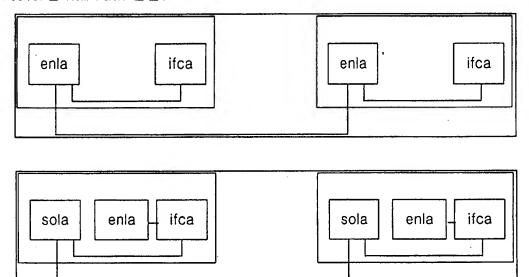
4) 항에서 계속

- 4. Router 간에 Atm Path를 통한 Ethernet 서비스.
 - 4.1 LAN Cable을 이용하여 ENLA끼리 연결하는 것이 아니다.
 - 4.2 IFCA에서 Atm Path를 Sola와 연결하여 Router간에는 Sola와 Sola로 Atm Path로 연결을 하게된다.
 - 4.3 ENLA-IFCA-SOLA <-> SOLA-IFCA-ENLA
 - 4.4 초기 보드들이 Setup이 이루어 질때 ENLA, IFCA, SOLA사이의 Atm Path는 default로 잡히게 설정.
- 5. Router간에 Lan-cable연결과 Sola를 통한 Atm Path의 차이.
 - 5.1 Sola를 통한 Atm Path가 Lan-cable을 통한 연결보다 속도가 빠르다.
 - 5.2 5.3에서 나타낸것을 보면 별차이는 없어 보인다. 하지만 ENLA를 거치지 않고 직접 SOLA를 거쳐 IFCA로 가면 중간에 delay를 줄일 수 있다.
 - 5.3
- 5.2.1 Lan-cable을 통한 연결에서 Node상의 경로.
 Node<->ENLA<->IFCA<->ENLA<->IFCA<->Node
- 5.2.2 Atm Path를 통한 연결에서 Node상의 경로. Node<->ENLA<->IFCA<->SOLA<->IFCA<->ENLA<->Node
- 6.
 - 6.1 ENLA에서 4Port를 하나의 네트웍으로 구성할 수 있다.
 - 6.2 ENLA에서 2Port씩 두개의 서브 네트웍으로 구성할 수 있다.

Hyundai **Syscom**m

社 外 秘

- 5)본 발명의 다른 실시예
- 4)항에 기재된 본 발명의 주요 실시예 이외에 다른 실시예가 있으면 도면을 도시하고, 그 내용을 실시할 수 있을 정도로 구체화 하여 기재.
- 1. Router간에 Lan cable을 사용하지 않고 Atm Path를 통한 연결을 설정한다. 이렇게 하면 좀 더 속도면에서 향상시킬수 있다.
- 2. Router간 Atm-Path 연결.



6)본 발명의 효과

본 발명과 종래기술과의 구성 및 동작의 차이에서 오는 효과를 구체적으로 기재하고,부수적으로 발생되는 이점도 기재하나,단 기술적인 근거가 없는 막연한 경제적 효과 등은 기재 불필요.

- 1.1 ENLA는 Mac_Switching관련 기능을 수행함으로 기능의 구분및 차후 기능추가의 용이.
- 1.2 IFCA는 Routing관련 기능을 수행함으로 기능의 구분및 차후 기능추가의 용이.
- 1.3 SOLA를 통한 Atm-Path의 연결에 의한 Atm Switched Router간의 Lan-cable연결에 비해 빠른 전송서보시를 제공할수 있다.

HYUMDAI SYSCOMM

社 外 秘

3.발명의 권리보호 범위

본 항은 발명의 명세서에 기재된 내용중 권리로서 보호 받고자 하는 사항을 기재하되, 본 발명에 의해 새롭게 창작된 구성 혹은 기능만을 기재함.특히,그중 보호를 받아야할 부분 이나. 또 다른 실시예가 있는 경우 이를 다른 항으로 명확하고,간결하게 기재하시기 바람.

- 1. ENLA, SWITCH, IFCA, SOLA 간 데이터 전송을 위한 경로 설정 및 경로 설정 해제 기능
- 2. 운용자가 원하는 네트웍정보를 입력 받아 라인카드 초기 Setup시 네트웍정보를 받아 네트웍을 구성하는 기능.
- 3. 네트웍 구성시 서브네트웍을 1개 또는 2개로 구성할수 있는 기능.
- 4. 같은 서브네트웍인 경우 IFCA까지 가지 않고 바로 Mac_Switching할수 있는 기능.



Hyundai syscomm

社 外 秘

4. 도면의 간단한 설명

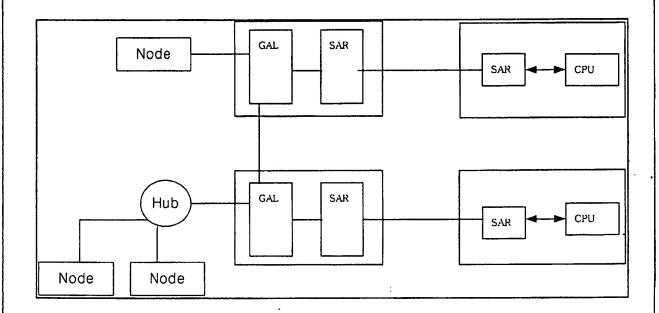
- ※도면의 도시된 내용에 따라 발명자가 의도했던 내용이 변할수 있으므로 본 발명서에 필요한 도면을 정확하게 표시하여,명세서 뒤에 반드시 첨부하시기 바람.
- ※ ①전자전기회로 관련 출원은 회로도,블록도,FLOW CHART,특성그래프 등이 첨부되어야함.
 - ②기계관련 출원은 전체 구조도,상세 구조도,투시도 등이 첨부되어야 하며,
- ③공정관련 출원은 전체공정 계통도와 상세공정도 및 특성그래프 등이 첨부되어야 함.
- ※본 항에 예를들에 "제1도는 XXX 회로도,제2도는 ...소자의 단면도~ ,"와 같이 기재바람.
- ※도면의 필요한 부분에 대해서는 그 명칭을 본 항 하단부 아래에 기재하시기 바람.

(<예>1:제어부 2:감지부)

- 1. 밑에 있는 도식은 Router간에 ENLA 보드사이에 Lan cable을 이용하여 Router를 연결하여 운용.
- 2.

Node -> Galileo -> SAR(ENLA) -> SAR(IFCA) -> CPU(IFCA) ->

- <- Galileo <- CPU(ENLA) <- SAR(ENLA) <- SAR(IFCA) <-
- -> Galileo -> SAR(ENLA) -> SAR(IFCA) -> CPU(IFCA) ->
- Node <- Hub <- Galileo <- CPU(ENLA) <- SAR(ENLA) <- SAR(IFCA) <-



Case No.: 05-500-B

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

ATM SWITCHED ROUTER FOR TRANSMITTING IP PACKET DATA

was filed on July 11, 2006 as United States Application Serial Number 10/585,586.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56 (including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application).

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s):

	<u>Number</u>	Country	Day/Month/Year Filed
1.	PCT/KR2005/000133	PCT	14 January 2005
2.	10-2004-0002981	Korea	15 January 2004

I hereby appoint the practitioners associated with the Customer Number provided below to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and I direct that all correspondence be addressed to that Customer Number.

Customer Number: 020306	
Principal attorney or agent:	Robert J. Irvine, III
Telephone number: 312-913-0001	

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first inve	ntor: Jung Hee PARK	
Inventor's signature: Residence:	Date:	لأو من
Citizenship:	San 136-1, Ami-ri, Bubal-eub Icheon-si, Gyeonggi-do 467-860, Republic of Korea Republic of Korea	
Post Office Address:	San 136-1, Ami-ri, Bubal-eub Icheon-si, Gyeonggi-do 467-860, Republic of Korea	



ASSIGNMENT

Case No.: 05-500-B Serial No.: 10/585,586

Inventor: Jung Hee PARK

Date of Execution of Application:

Filing Date: July 11, 2006

In consideration of One Dollar (\$1.00) and other good and valuable considerations in hand paid, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assigns to:

UTSTARCOM KOREA LIMITED

its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, entitled:

ATM SWITCHED ROUTER FOR TRANSMITTING IP PACKET DATA

and identified as:

Case No. 05-500-B

in the offices of McDonnell Boehnen Hulbert & Berghoff LLP and in said application and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension of such patents, and further assigns to said assignee the priority right provided by the International Convention.

The undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorizes and requests the attorneys of record in said application to insert in this assignment the filing date and serial number of said application when officially known, and the date of execution of the application.

The undersigned warrants himself to be the owner of the entire right, title and interest in said invention or improvements and to have the right to make this assignment, and further warrants that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

For said considerations the undersigned hereby agrees, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation and substitute applications for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application, and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations the undersigned authorizes said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure is proper and further agrees, upon the request of said assignee, its successors and assigns, to cooperate to the best of the



ability of the undersigned with said assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all other acts necessary to obtain, maintain and enforce said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in the assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignee, its successors and assigns, to the full end of the term for which said Letters Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

WITNESS my hand and seal this		,,,	
		Jung Hee PARK	
State	of		
Cour	nty of		
	The foregoing instrument was ack	nowledged before me this day of	
	, by	- 11 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
		NOTADY DIED IC	



EXHIBIT 2

US 10/585,586 DOC. 2





박정희님 귀하

경기도 이천시 부발읍 아미리 산 136-1

Incorrect address

 Σ

[Translation]

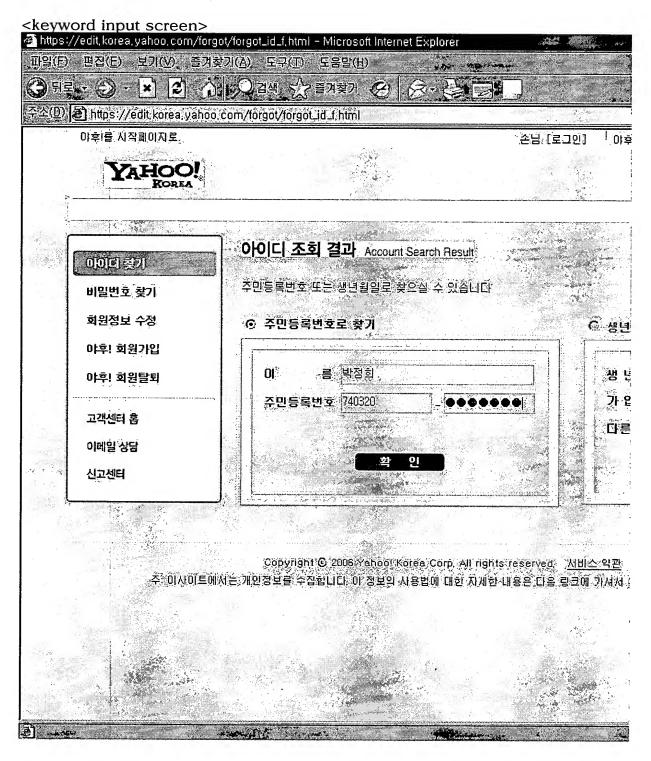
Kim & Chang Mr. Jung Hee PARK San 136-1, Amiri, Bubal-eub, Icheon-si, Gyeonggi-do 467-860, Republic of Korea From To

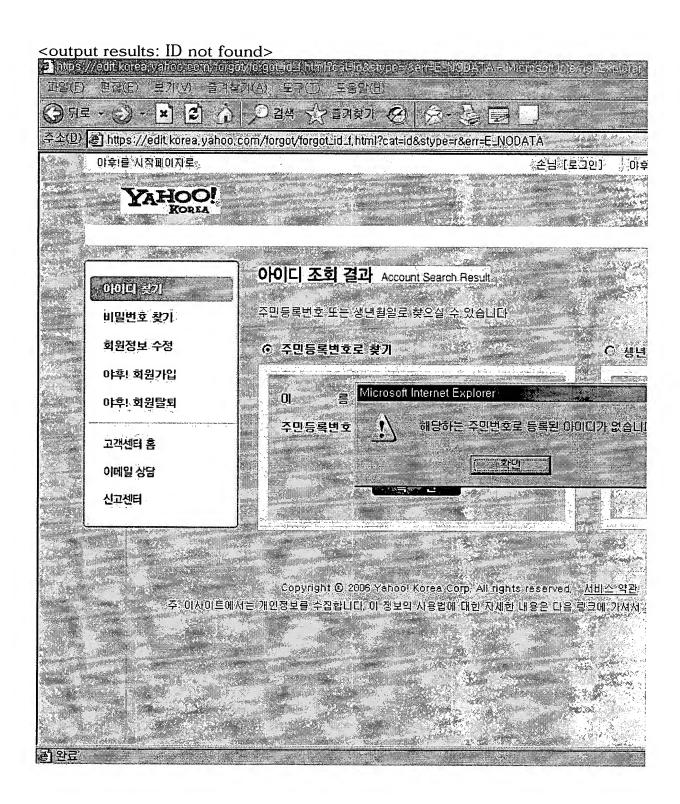
[Mail Return Notice by Post Office]

Recipient refused to accept package [Reason for Return]
☐ Recipient not present ☐ Recipient has moved ☐ Recipient does not reside at indicated address

EXHIBIT 3

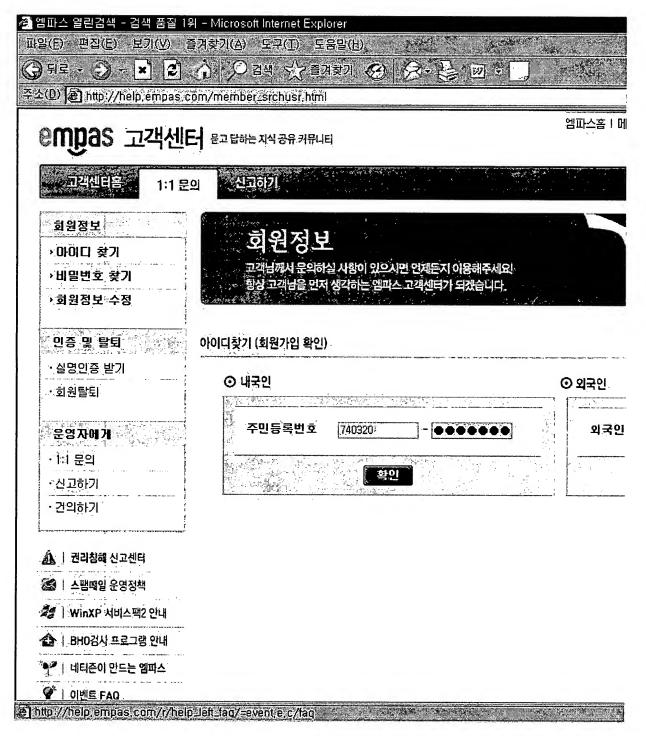
(1) Search from www.yahoo.co.kr Web-mail account search: keywords "PARK, Jung Hee in Korean" & "740320-1222320" (Residence ID)



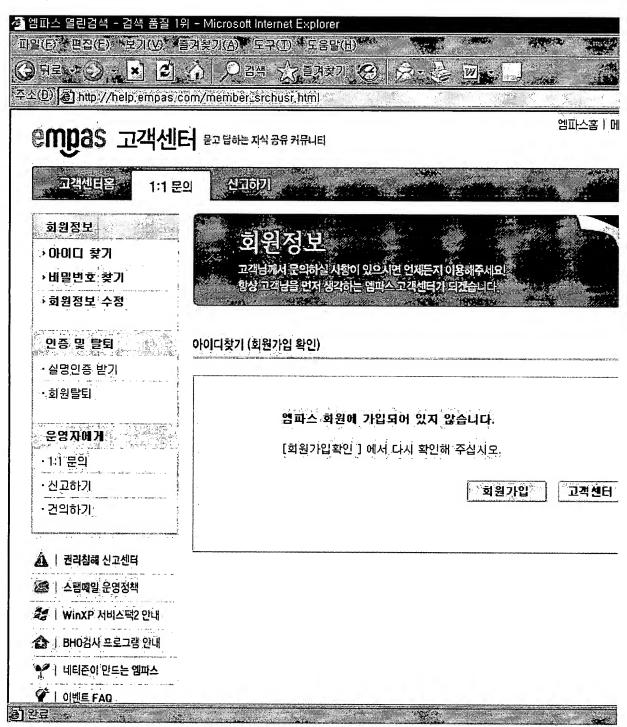


(2) Search from www.empas.com Web-mail account search: keywords "PARK, Jung Hee in Korean" & "740320-1222320" (Residence ID)

<keyword input screen>

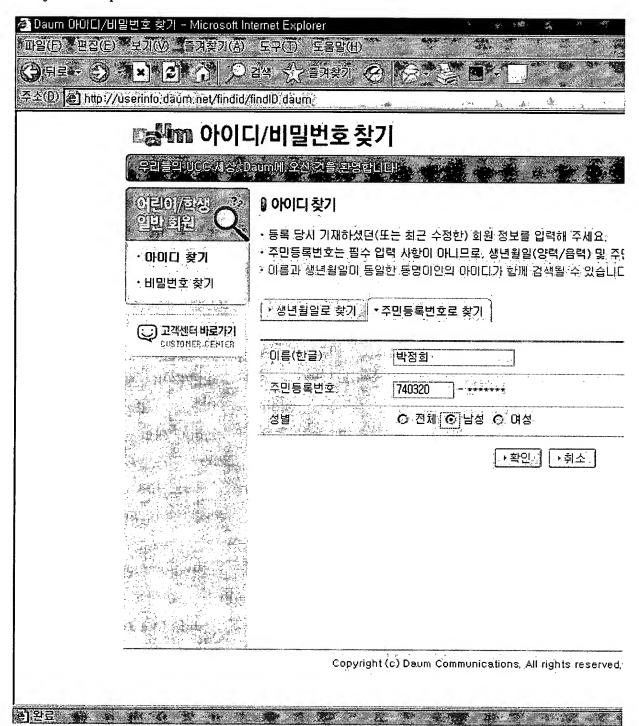


<output results: ID not found>



(3) Search from www.daum.net Web-mail account search: keywords "PARK, Jung Hee in Korean" & "740320-1222320" (Residence ID)

<keyword input screen>

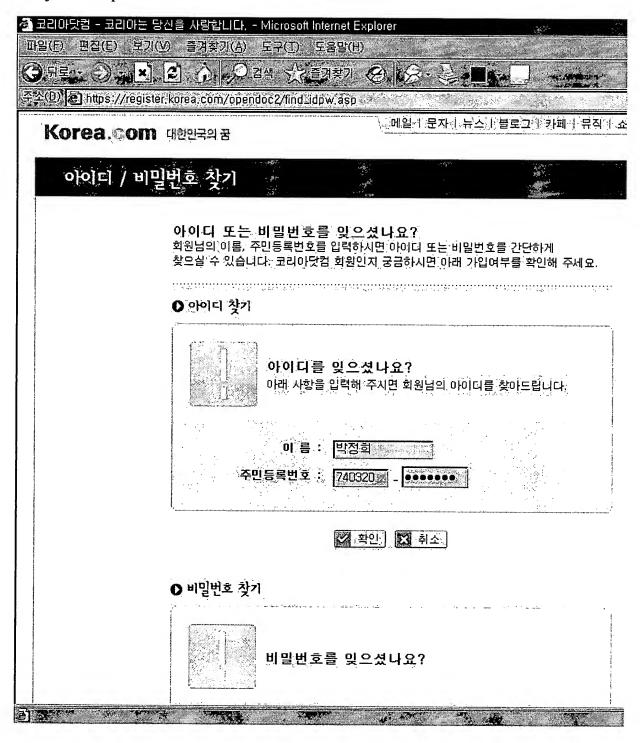


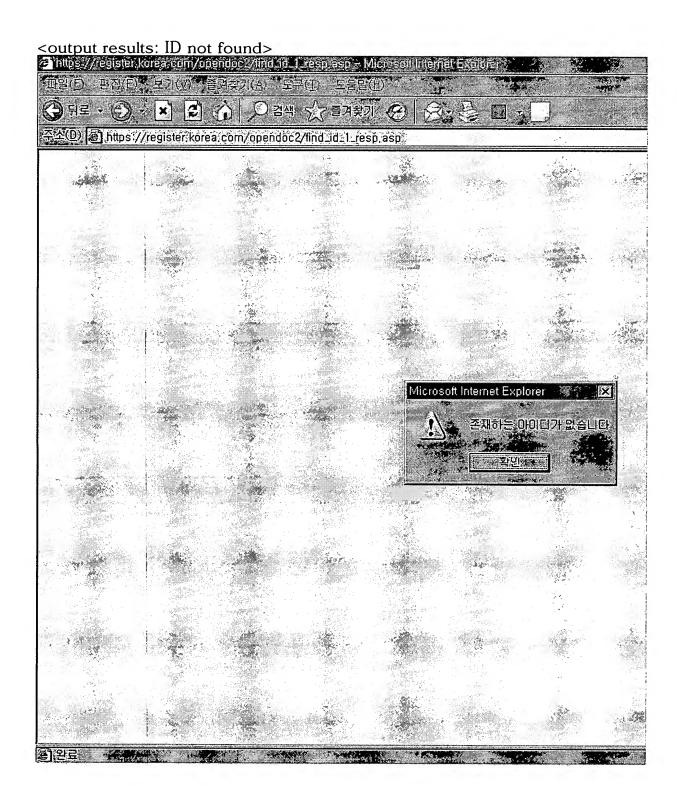
<output results: ID not found>

중로 - 항 - ★ ② ☆ 주소(B) ⑤ http://userinfo.daum.net/	○ 검색 ·
	이디/비밀번호찾기 참 Paim에 오시크를 관용합니다
© 근이 /호/장 으므니 호텔 호 찾기 · 비밀번호 찾기 · 비밀번호 찾기	● 아이디 찾기 · 등록 당시 기재하셨던(또는 최근 수정한) 회원 정보를 입력해 주세요. · 주민등록번호는 필수 입력 사항이 아니므로, 생년월일(양력/음력) 및 주 · 이름과 생년월일이 동일한 동명이인의 아이디가 함께 검색될 수 있습니다. • 생년월일로 찾기 ▼주민등록번호로 찾기
mild direction on the little in the contraction of	Copyright (c) Daum Communications, All rights reserved

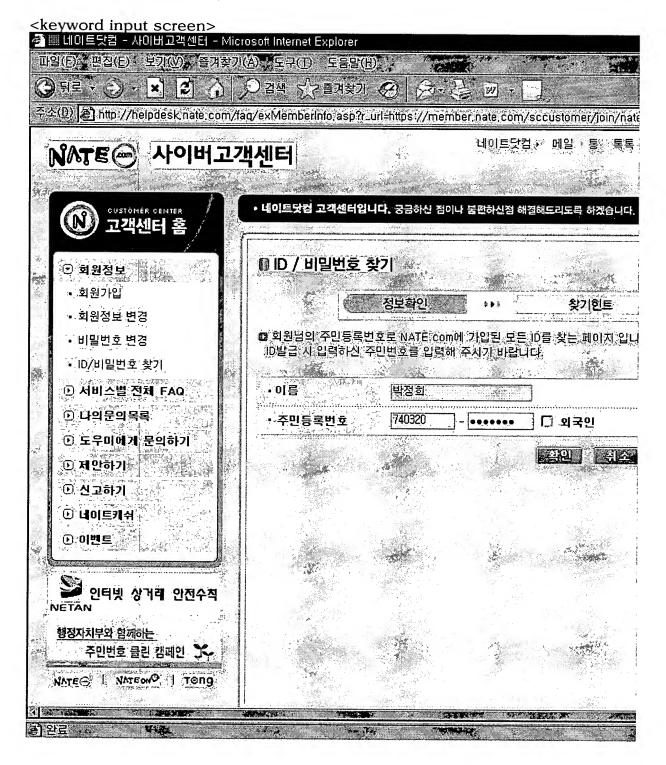
(4) Search from www.korea.com Web-mail account search: keywords "PARK, Jung Hee in Korean" & "740320-1222320" (Residence ID)

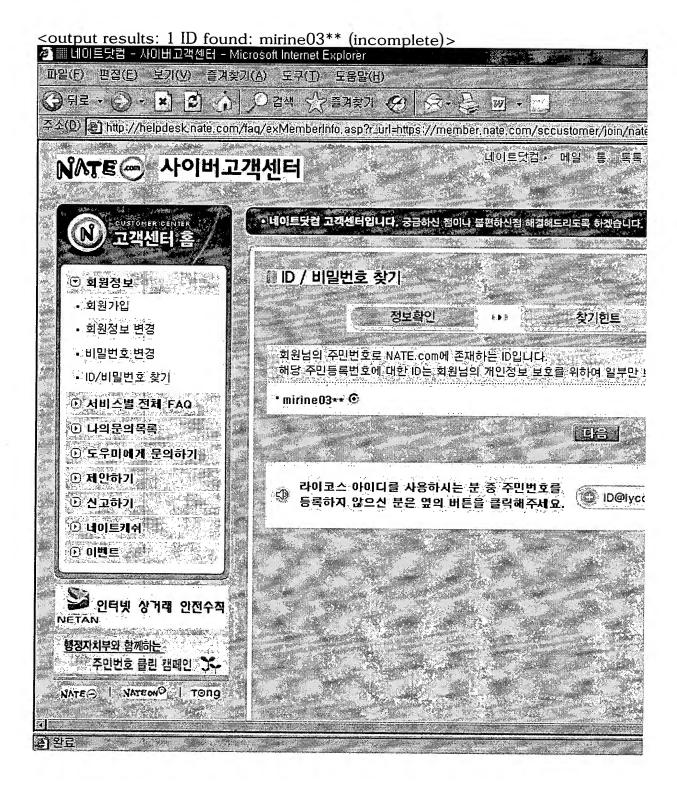
<keyword input screen>





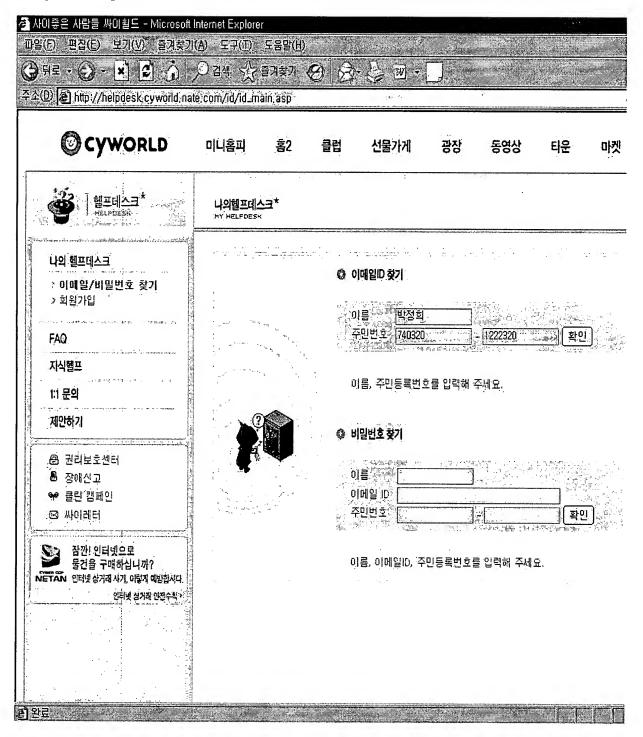
(5) Search from www.nate.com Web-mail account search: keywords "PARK, Jung Hee in Korean" & "740320-1222320" (Residence ID)

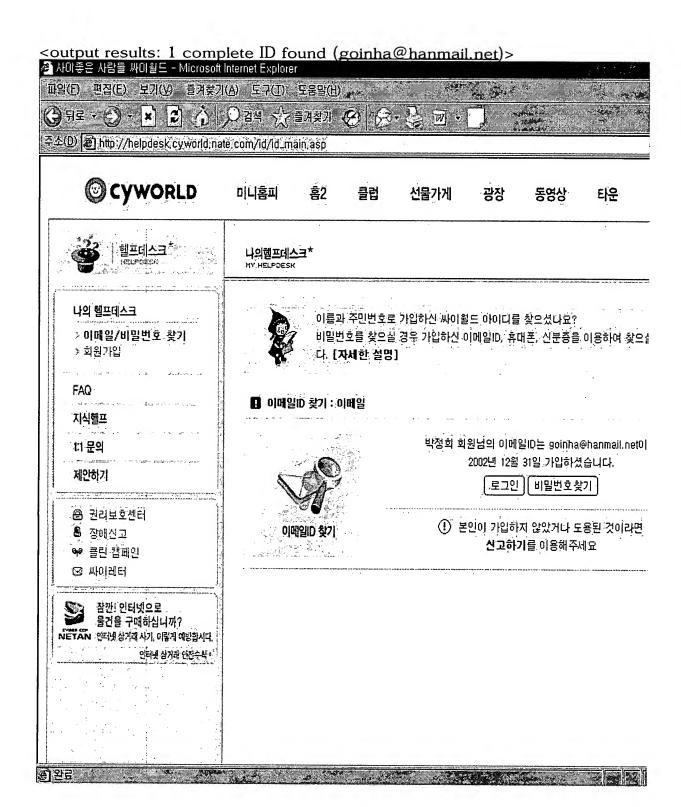




(6) Search from www.cyworld.co.kr Web-mail account search: keywords "PARK, Jung Hee in Korean" & "740320-1222320" (Residence ID)

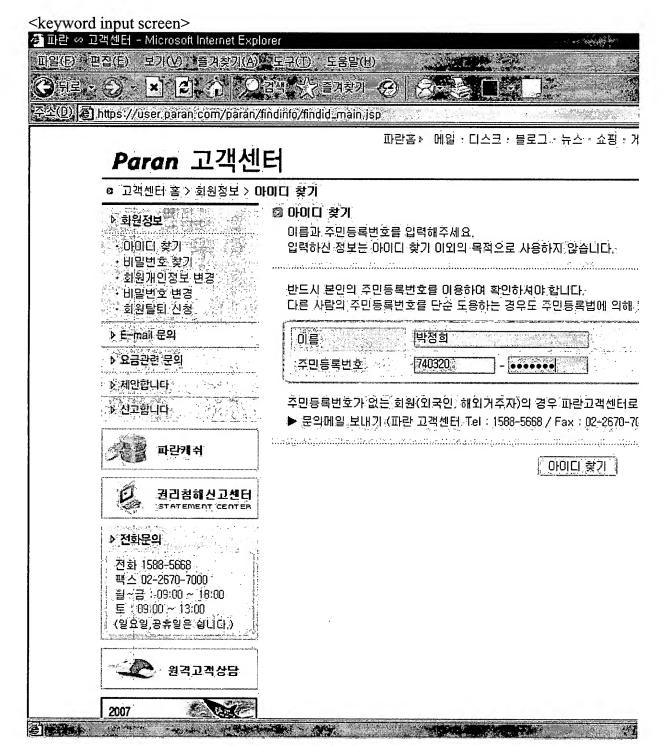
<keyword input screen>





(7) Search from www.paran.com

Web-mail account search: keywords "PARK, Jung Hee in Korean" & "740320-1222320" (Residence ID)

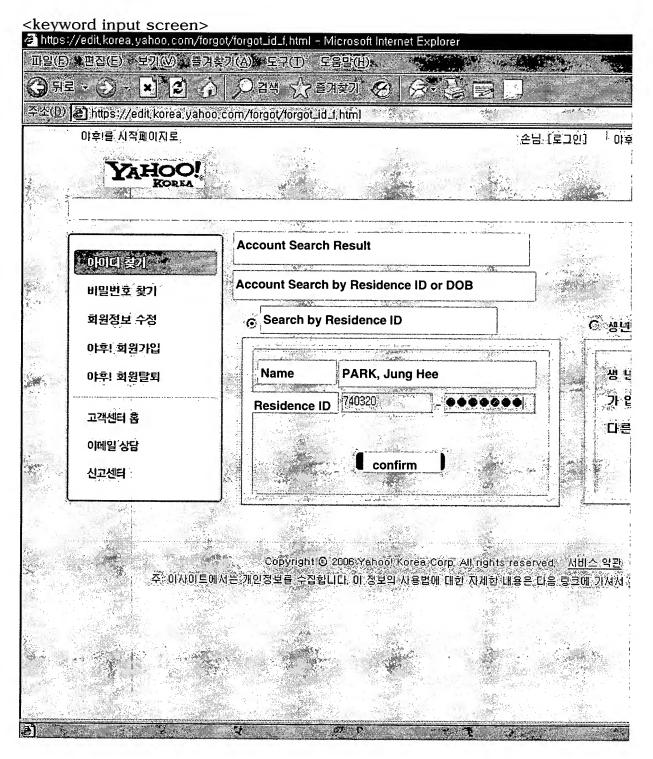


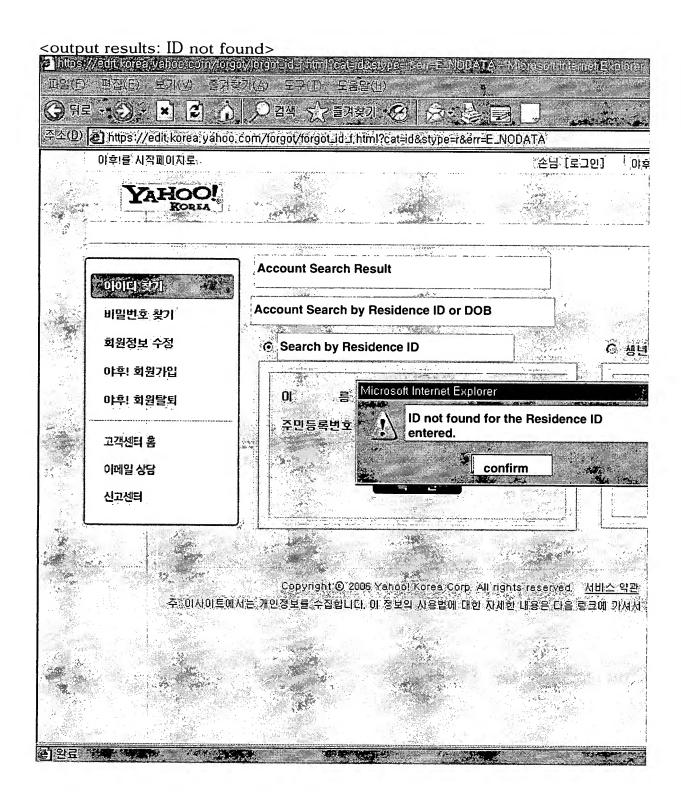
<output results: 1 ID found: mirine***0@paran.com (incomplete) > 플 파란 ∽ 고객센터 - Microsoft Internet Explorer 파일(F) 편집(E) 보기(\underline{V}) 즐겨찾기(\underline{A}) 도구(\underline{T}) 도움말(\underline{H}) 의 검색 🏠 즐거찾기 🚱 (**4**) 别로 - (5) - |**x**| 今소(D) **a** https://user.paran.com/userAction.do?method=findidMain 파란홈》 메일 · 디스크 · 블로그 · 뉴스 · 쇼핑 · 거 Paran 고객센터 ○ 고객센터 홈 > 회원정보 > OFOICI 찾기 ② 아이디 찾기 회원정보 박정희 님의 아이디는 다음과 같습니다. • 아이디 찾기 고객님의 소중한 개인정보를 보호하기 위해 아이디 일부를 * 처리 하고, ·비밀번호 찾기 본인확인 방법으로 아이디 전체를 확인하실 수 있습니다. · 회원개인정보 변경 • 비밀번호 변경 · 회원탈퇴·신청 mirine *** D@paran. com OFFICE ▶ E-mail 문의 가입일자 2006-08-07 ♪ 요금관련 문의 만일 고객님께서 직접 가입하신 아이디가 아닌 경우, [개인정보도용 7 제안합니다 ▶ 신고립니다 비밀번호 찾기 로그인 파란케쉬 권리침해신고센터 STATEMENT CENTER ▷ 전화문의 전화 1588-5668 팩스 02-2670-7000 월~금: 09:00 ~ 18:00 重:09:00 ~ 13:00 (일요일,공휴일은 쉽니다.) 원격고객상담

흥] 완료

2007

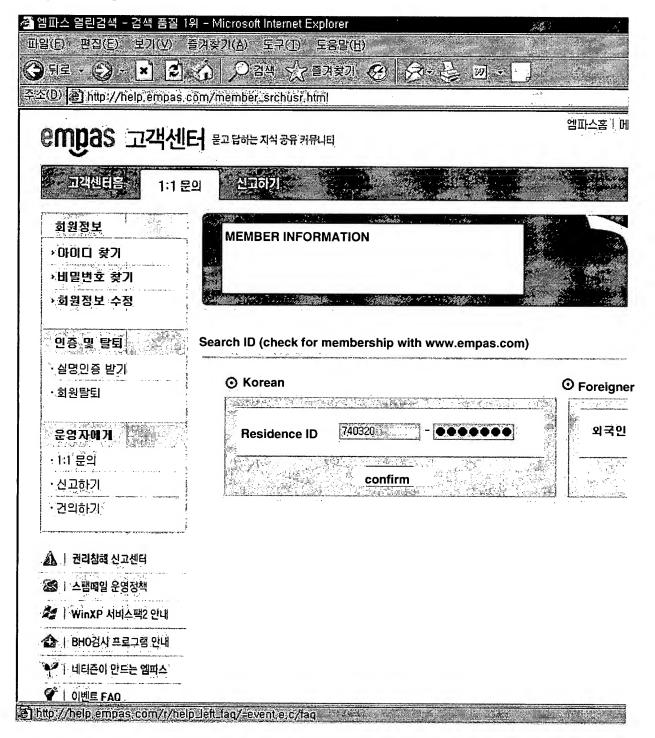
(1) Search from www.yahoo.co.kr Web-mail account search: keywords "PARK, Jung Hee in Korean" & "740320-1222320" (Residence ID)



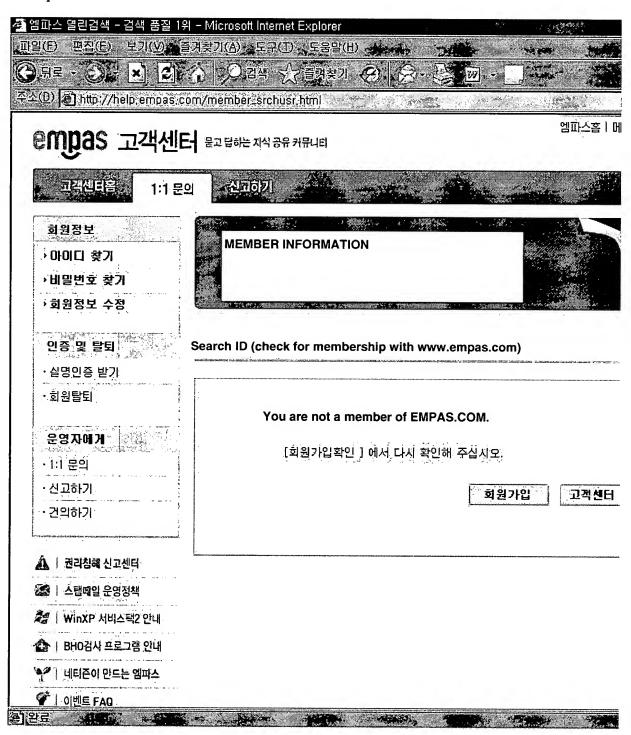


(2) Search from www.empas.com Web-mail account search: keywords "PARK, Jung Hee in Korean" & "740320-1222320" (Residence ID)

<keyword input screen>

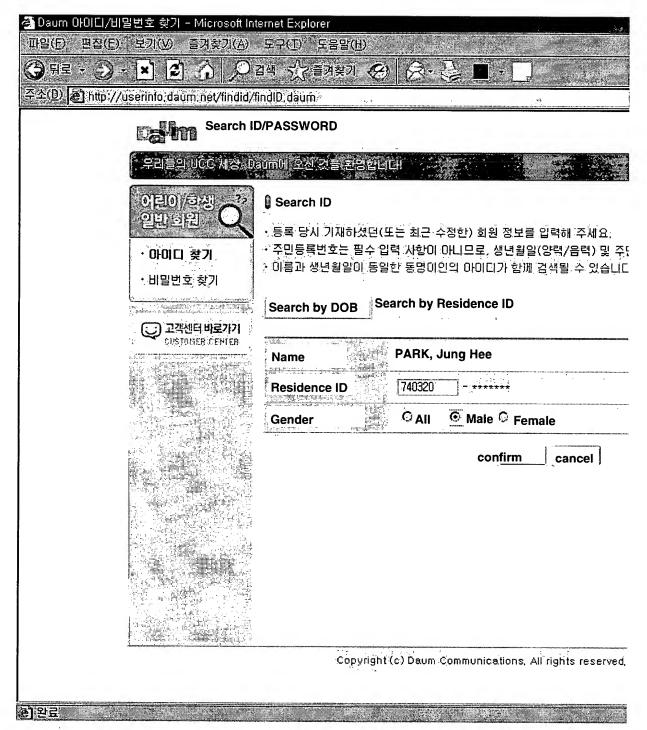


<output results: ID not found>



(3) Search from www.daum.net Web-mail account search: keywords "PARK, Jung Hee in Korean" & "740320-1222320" (Residence ID)

<keyword input screen>

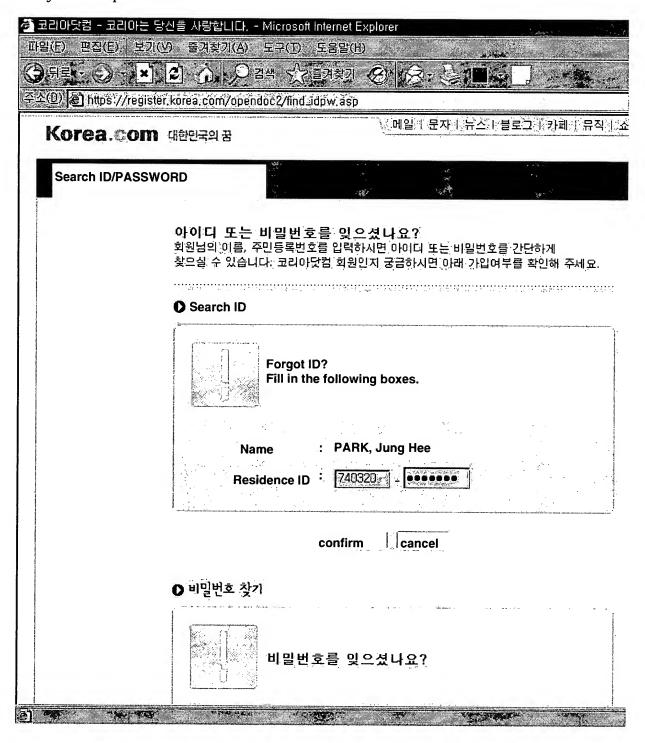


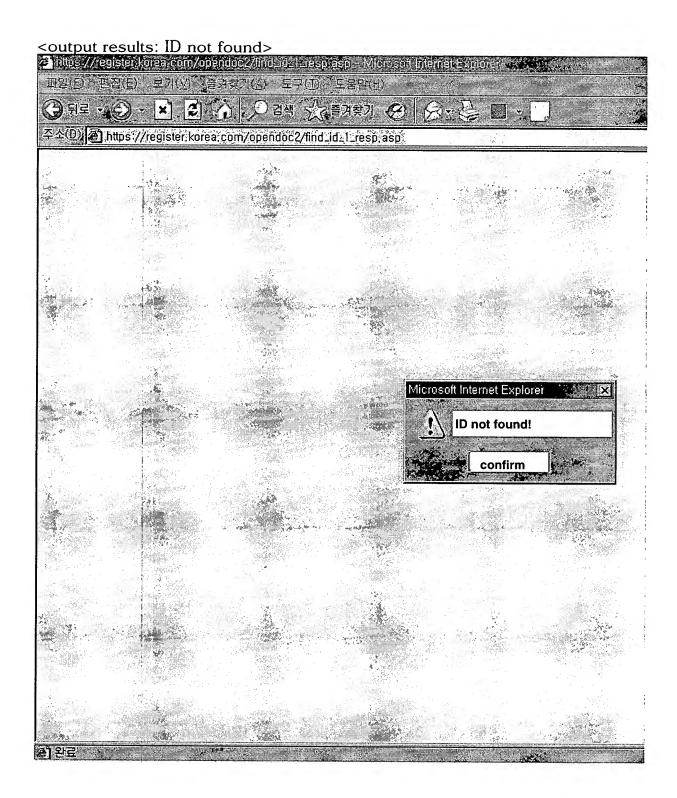
<output results: ID not found>

Search I	D/PASSWORD
우리들의:UCC:세상:D	· · · · · · · · · · · · · · · · · · ·
어린이/호생 (*) 일반 회원 (*) • 아이디 찾기 • 비밀변호 찾기	 Search ID 등록 당시 기재하셨던(또는 최근 수정한) 회원 정보를 입력해 주세요 주민등록번호는 필수 입력 사항이 마니므로, 생년월일(양력/음력) 및 이름과 생년월일이 동일한 동명이인의 아이디가 함께 검색될 수 있습
교객센터 바로기기	Search by DOB Search by Residence ID
costones centes	Name Residence ID
	Gender GAII GMale Female confirm cancel
	ID not found

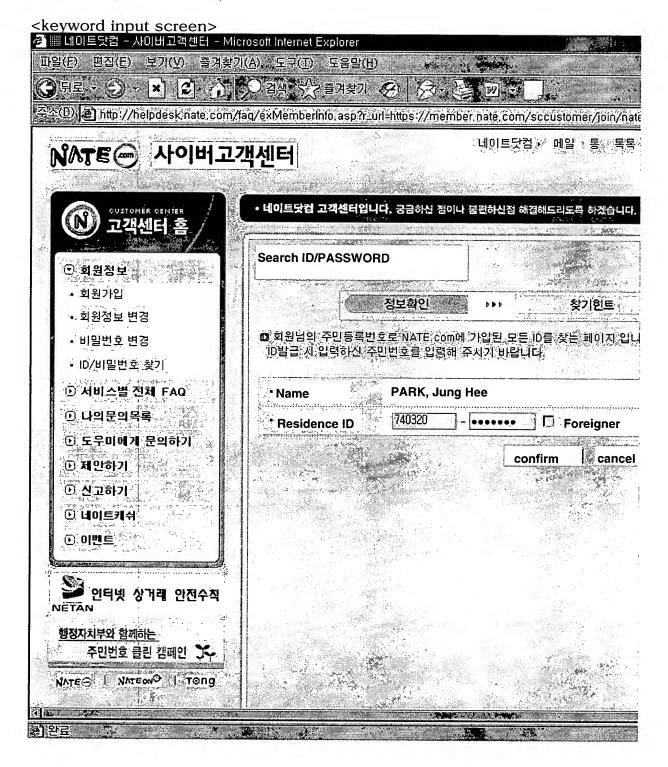
(4) Search from www.korea.com Web-mail account search: keywords "PARK, Jung Hee in Korean" & "740320-1222320" (Residence ID)

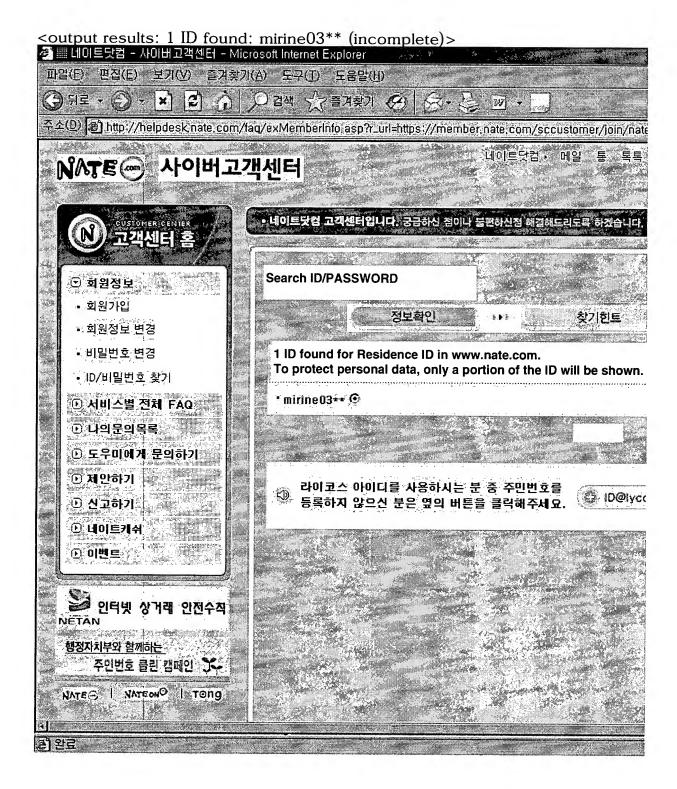
<keyword input screen>





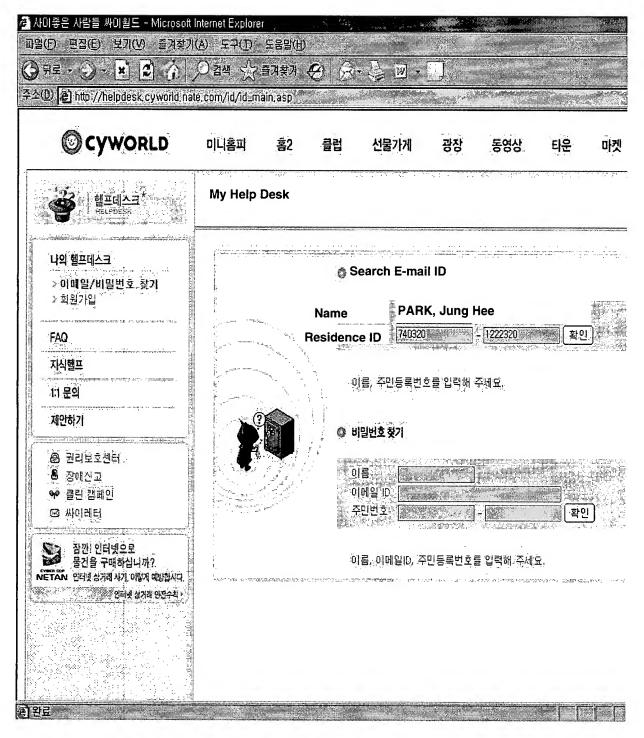
(5) Search from www.nate.com Web-mail account search: keywords "PARK, Jung Hee in Korean" & "740320-1222320" (Residence ID)

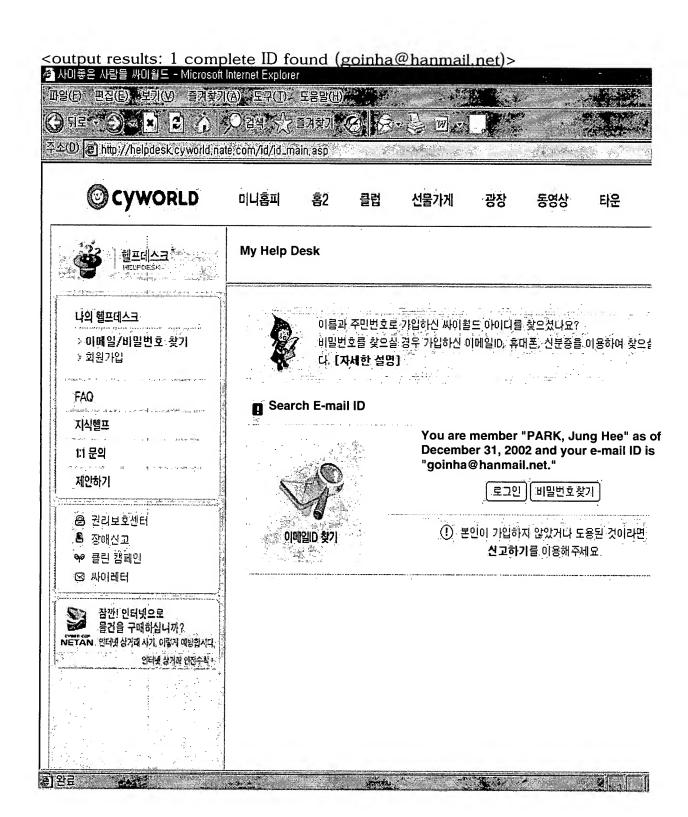




(6) Search from www.cyworld.co.kr Web-mail account search: keywords "PARK, Jung Hee in Korean" & "740320-1222320" (Residence ID)

<keyword input screen>





(7) Search from www.paran.com

Web-mail account search: keywords "PARK, Jung Hee in Korean" & "740320-1222320" (Residence ID)

<keyword input screen> 🥝 파란 ∽ 고객센터 - Microsoft Internet Explorer 파일(E) 편집(E) 보기(V) 즐겨찾기(A) 도구(T) 도움말(H) 기점색 🌱 즐겨찾기 🥝 ③ Fiz - ⑤ - ► 6 6 至全即 **a** https://user.paran.com/paran/findinfo/findid_main.jsp 파란홈》 메일 - 디스크 - 블로그 - 뉴스 - 쇼핑 - 거 **Customer Center** Paran ◎ 고객센터 홉 > 회원정보 > OH이다 찾기 Search ID ▶회원정보 이름과 주민등록번호를 입력해주세요. • 아이디 찾기 입력하신 정보는 마이디 찾기 이외의 목적으로 사용하지 않습니다. + 비밀번호 찾기 · 회원개인정보 변경 반드시 본인의 주민등록변호를 이용하며 확인하셔야 합니다. · 비밀번호 변경 다른 사람의 주민등록번호를 단순 도용하는 경우도 주민등록법에 의해 🤅 • 회원탈퇴 신청 ▶ E-mail 문의 Name PARK, Jung Hee ▶ 요금관련 문의 740320 Residence ID ▶ 제안합니다 주민등록번호가 없는 회원(외국인, 해외거주자)의 경우 파란고객센터로 » 신고합니다 ▶ 문의메일 보내가 (파란 고객센터, Tel : 1588-5668 /, Fax) 02-2670-70 파란케쉬 아이디 찾기 권리참해신고센터 STATEMENT CENTER **6 전화문의** 전화 1588-5668 팩스,02-2670-7000 월~금: 09:00 ~ 18:00 토:09:00 ~ 13:00 원격고객상담 2007

<output results: 1 ID found: mirine***0@paran.com (incomplete) > 🥝 파란 ∽ 고객센터 - Microsoft Internet Explorer 파일(E) 편집(E) 보기(\mathbf{V}) 즐겨찾기(\mathbf{A}) 도구(\mathbf{I}) 도움말(\mathbf{H}) 기계 (소) 즐거찾기 (소) (2) 引星 - (2) + |x| |2| | / (1) 李소(D) @] https://wser.paran.com/wserAction.do?method=findidMain. 파란홈 > 메일 · 디스크 · 블로그 · 뉴스 · 쇼핑 · 거 **Customer Center** Paran ○ 고객센터 홉 > 회원정보 > OH이다 찾기 Search ID 회원정보 You are member "PARK, Jung Hee" as of August 7, • 아이디 찾기 2006 and your e-mail ID. To protect personal data, • 비밀번호 찾기 only a portion of the ID will be shown. • 회원개인정보 변경 • 비밀변호 변경 • 회원탈퇴 신청 mirine *** 0@paran, com ID ♪ E-mail 문의 2006-08-07 Member as of: ▶ 요금관련 문의 만일 고객님께서 직접 가입하신 아이디가 아닌 경우, [개인정보도용 **> 제인합니다** 6 신고합니다_~ 비밀번호 찾기 로그인 파란케쉬 권리점해신고센터 STATEMENT/CENTER ▶ 전화문의 전화 1588-5668 팩스 02-2670-7000 월~금 : 09:00 ~ 18:00 重:09:00 ~ 13:00 (일요일,공휴일은 쉽니다.) 원격고객상담 2007 **總**] 완료

EXHIBIT 4

zjwlim (Ji-Won Lim)

보낸 사람: zjwlim (Ji-Won Lim)

보낸 날짜: 2007년 2월 28일 수요일 오후 6:29

받는 사람: 'goinha@hanmail.net'; 'mirine0320@paran.com'

참조: jyklm1 (Joo-Young Klm)

제목: [박정희님] 김.장법률사무소입니다. (FE251546)

점부 파일: FE251546-박정희-안내문,발명신고서.pdf; FE251546-박정희-서명서류.pdf; 05-500-B-

Specification.pdf

수 신: 박정희님

경기도 이천시 부발읍 아미리 산 136-1 (우. 467-860)

제 목: 미국 특허 출원 제 10/585,586 호

<u>당소 정리 번호: FE251546</u>

귀하의 사업에 무궁한 발전을 기원합니다.

당소는 유티스타콤 코리아 유한회사의 대리인인 김장법률사무소입니다.

귀하께서는 2002년도에 현대전자산업 주식회사/현대시스콤 재직 중에 개발하신 아래의 발명에 대한 권리를 당시 소속회사의 직무발명 양도규정에 따라 소속회사에 양도하였으며, 현재 이 발명에 대해 특허를 받을 수 있는 권리는 귀하의 소속회사로부터 당소의 의뢰인인 유티스타콤 코리아 유한회사로 이전되어 있는 상태에 있습니다. 이 발명에 대하여는 한국 특허출원을 하고 이어서 현재 미국 특허출원을 진행 중에 있는데, 미국의 특허제도에 따르면 출원시 발명자가 출원인이 되어야 하기 때문에 미국 특허청은 특허를 받을 수 있는 권리가 당소의 의뢰인에게 있다 하더라도 첨부된 바와 같은 서류에 출원인으로서 발명자가 직접 서명한 후 이를 제출하도록요구하고 있습니다.

첨부된 서류 중 양도증(assignment)과 관련해서는, 귀하께서 이미 이 발명에 대한 권리를 양도한 상태이기 때문에 첨부된 양도중은 이를 확인하는 절차에 불과하며 새로이 무언가를 양도하는 것은 아님을 알려드립니다. 발명자 선언서(declaration)는 귀하께서 이 발명의 발명자임을 선서하는 내용으로 되어 있습니다.

이와 같은 사정으로 상기 서명서류 및 미국특허청에 제출된 명세서를 보내드리오니 <u>검토 및 서명 후 당소로 반송하여 주시기를</u> 부탁드립니다. 반송은 퀵서비스(착불) 등 귀하께서 편한 방법으로 아래의 당소 주소로 해 주시고 어떤 경우에는 당소에서 비용을 부담할 것이오니 비용 영수증 등도 함께 반송하여 주시면 감사하겠습니다.

문의사항이 있으시면 아래의 담당자 연락처로 연락주시기 바랍니다.

김.장법률사무소

변리사 김 주 영 (전화: 02-2122-3561) 과장 임 지 원 (전화: 02-2122-3838)

첨부물있음: 2006년 12월 1일자 당소서신 및 발명신고서

서명서류(발명자선언서 및 양도증) 미국특허청에 제출된 명세서

Ji-Won Lim

zjwlim@ip.kimchang.com 직용: (02) 2122 3838

金·張 法律事務所 서울시 종로구 신문로 1가 226 홍국생명빌딩 9층 우편번호 110-786

전화: (02) 764-8855 / (02) 2122-3900 (대표)

팩스: (02) 741-0328 / (02) 745-5954 / (02) 763-7434

US 10/585,586

DOC.4-2

위 전자우편에 포함된 정보는 위에 기재된 수신인만을 위해 발송되는 것으로서 보안을 유지해야 하는 정보 및 법률상 또는 다른 사유로 인하여 공개가 금지된 정보가 들어 있을 수 있습니다. 귀하가 이 전자우편의 지정 수 신인이 아니면 이를 무단으로 보유, 전송, 배포할 수 없으며, 일부의 내용이라도 공개, 복사해서는 안됩니다. 그 러므로, 잘못 수신된 경우에는 즉시 전화 또는 전자우편 주소(all@ip.kimchang.com)로 연락하여 주시고, 원본 및 사본과 그에 따른 첨부 문서를 모두 삭제하여 주시기 바랍니다. [E-mail to the inventor Jung Hee PARK from K&C staff, Jiwon Lim]

From: zjwlim (Ji-Won Lim)
Date: February 28, 2007 6:29 PM

To: goinha@hanmail.net; mirine0320@paran.com

Cc: jykim1 (Joo-Young Kim)

Subject: [To. Mr. Jung Hee PARK] An announcement from Law offices of Kim &

Chang (FE251546)

Attachment(s): FE251546-PJH-LETTER, INVENTION DISCLOSURE. pdf FE251546-PJH - SIGNATURE DOCUMENTS. PDF

05-500-B-Specification.pdf

To: Mr. Jung Hee PARK

San 136-1, Ami-ri, Bubal-eub, Icheon-si, Gyeonggi-do 467-860, Republic of Korea Re: U.S. Patent Application No. 10/585,586 (Our Ref. FE251546)

Dear Mr. Park,

We hope your business is prospering.

We are attorneys for a law firm, Kim & Chang, and contacting you on behalf of our client UTStarcom Korea Limited.

You had assigned your invention as identified on the next page to your former company in 2002, which was conceived when you were working for Hyundai Electronics Industries, Co., Ltd./ Hyundai Syscomm, Inc. under the provisions of the employee's invention compensation policy of the company. Therefore, the right to receive patent for the invention was transferred to the former company. Recently, the right to receive patent was transferred to our client, UTStarcom Korea Limited, hereinafter referred to as "UTSK" from your former company. With respect to this invention, a Korean patent application was filed and its counterpart U.S. patent application has recently been filed with the U.S. Patent and Trademark Office. According to the U.S. Patent law, the inventor is only entitled to be an applicant for a patent application. Therefore, although the right to receive patent has been transferred to our client, UTSK, the U.S. Patent and Trademark Office requires filing of documents as enclosed herewith which must be signed by the inventor.

With regard to the assignment, please be informed that signing the enclosed assignment does not mean that you newly transfer something another to somebody, it merely means

[Translation]

confirming that you had already assigned the right to receive patent in 2002. As for the Declaration, the signing the declaration means that you are declaring that you are the true and sole inventor of this invention.

As explained above, I enclose herewith these signature documents together with the specification as filed with the U.S. Patent and Trademark Office. Please review them and sign and date the marked portions, and return them to us via courier, registered mail or whatever is convenient for you. Any costs to be incurred in this connection are surely responsible to our side. Please send us any receipts for payment in return.

If you have any other questions, please contact the person as below.

Law Offices of Kim & Chang Patent Attorney Joo-Young Kim (Tel. 02-2122-3561) Assistant Manager Jiwon Lim (Tel. 02-2122-3838)

金·張 法律事務所 KIM & CHANG

서울시 종로구 신문로 1가 226 홍국생명빌딩 9 총 우편번호 110-786 전화: (02) 764-8855 / 2122-3900 Fax: (02) 745-5954 / 741-0328 / 763-7434 E-Mall: all@ip.kimchang.com

2006년 12월 1일

수 신: 박 정 희님

경기도 이천시 부발읍 아미리 산 136-1 (우, 467-860)

제 목: 미국 특허청 제출용 서명서류 송부의 건 (U.S. Serial No. 10/585,586)

당소 정리 번호: GP048360 (FE251546)

귀하의 사업에 무궁한 발전을 기원합니다.

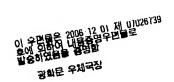
당소는 유티스타콤 코리아 유한회사의 대리인인 김&장 특허법률사무소 입니다.

귀하께서는 2002년도에 현대전자산업 주식회사/현대시스콤 재직 중에 개발하신 아래의 발명에 대한 권리를 당시 소속회사의 직무발명 양도규정에 따라 소속회사에 양도하였으며, 현재이 발명에 대해 특허를 받을 수 있는 권리는 귀하의 소속회사로부터 당소의 의뢰인인 유티스타콤 코리아 유한회사로 이전되어 있는 상태에 있습니다. 이 발명에 대하여는 한국 특허 출원을 하고 이어서 현재 미국 특허출원을 진행 중에 있는데, 미국의 특허제도에 따르면 출원시 발명자가 출원인이 되어야 하기 때문에 미국 특허청은 특허를 받을 수 있는 권리가 당소의 의뢰인에게 있다 하더라도 첨부된 바와 같은 서류에 출원인으로서 발명자가 직접 서명한 후 이를 제출하도록 요구하고 있습니다.

첨부된 서류 중 양도중(assignment)과 관련해서는, 귀하께서 이미 이 발명에 대한 권리를 양도한 상태이기 때문에 첨부된 양도중은 이를 확인하는 절차에 불과하며 새로이 무언가를 양도하는 것은 아님을 알려드립니다. 발명자 선언서(declaration)는 귀하께서 이 발명의 발명자임을 선서하는 내용으로 되어 있습니다.

이와 같은 사정으로 첨부 서류를 보내드리오니 <u>서명 후 당소로 반송하여 주시기를</u> 부탁드립니다. 반송은 퀵서비스(착불) 등 귀하께서 편한 방법으로 아래의 당소 주소로 해 주시고 어떤 경우에든 당소에서 비용을 부담할 것이오니 비용 영수증 등도 함께 반송하여 주시면 감사하겠습니다.





반송 주소: 서울시 종로구 신문로 1가 226 홍국생명빌딩 9층 김.장특허법률사무소 (우편번호 110-786)

발명의 명칭: ATM SWITCHED ROUTER FOR TRANSMITTING IP PACKET DATA

-담당자: 김 주 영 변리사 / 윤 지 홍 변리사 -전화: 02-2122-3561 / 02-2122-3515 -E-mail: jykim1@ip.kimchang.com

변리사 윤 지 홍 (1972) 560

첨부있음.



金·張 法律事務所 KIM & CHANG

Hungkuk Life Insurance Building, 9F, 226 Sinmunno 1-ga, Jongno-gu, Seoul 110-786, Korea Telephone: (822) 764-8855 / 2122-3900 Fax: (822) 741-0328 / 745-5954 / 763-7434 E-Mail: all@ip.kimchang.com

December 1, 2006

To. PARK, Jung Hee

San 136-1, Ami-ri, Bubal-eub, Icheon-si, Gyeonggi-do 467-860, Republic of Korea

Re. Declaration and Power of Attorney and Assignment to be filed with U.S.

Patent and Trademark Office (U.S. Serial No. 10/585,586)

K&C Ref.: GP048360/FE251546

I hope your business is prospering.

I am a patent attorney for a law firm, Kim & Chang, and contacting you on behalf of my client UTStarcom Korea Limited.

You had assigned your invention as identified on the next page to your former company in 2002, which was conceived when you were working for Hyundai Electronics Industries, Co., Ltd./ Hyundai Syscomm, Inc. under the provisions of the employee's invention compensation policy of the company. Therefore, the right to receive patent for the invention was transferred to the former company. Recently, the right to receive patent was transferred to our client, UTStarcom Korea Limited, hereinafter referred to as "UTSK" from your former company. With respect to this invention, a Korean patent application was filed and its counterpart U.S. patent application has recently been filed with the U.S. Patent and Trademark Office. According to the U.S. Patent law, the inventor is only entitled to be an applicant for a patent application. Therefore, although the right to receive patent has been transferred to our client, UTSK, the U.S. Patent and Trademark Office requires filing of documents as enclosed herewith which must be signed by the inventor.

With regard to the assignment, please be informed that signing the enclosed assignment does not mean that you newly transfer something another to somebody, it merely means confirming that you had already assigned the right to receive patent in 2002. As for the Declaration, the signing the declaration means that you are declaring that you are the true and sole inventor of this invention.

GWANG WHA MOON POST OFFICE- CONTENTS CERTIFIED MAIL CERTIFICATE NO. 07026739, 2006-12-01 As explained above, I enclose herewith these documents. Please sign and date the marked portions and return them to us via courier, registered mail or whatever is convenient for you. Any costs to be incurred in this connection are surely responsible to our side. Please send us any receipts for payment in return.

Return Address: Hungkuk Life Insurance Building, 9F, 226 Sinmunno 1-ga, Jongno-gu, Seoul 110-786, Korea

Title of Invention: ATM SWITCHED ROUTER FOR TRANSMITTING IP PACKET DATA

-Contact Person: Attorney Joo-Young Kim /

Attorney Jee Hong YOON

-Telephone: 02-2122-3561 / 02-2122-3515

-E-mail: jykim1@ip.kimchang.com

Attorney Jee Hong YOON (seal)

Enclosure(s)

社外秘

			2	직무	발명	병 신	고서		신고	일 : 2002년	<u>크 11월 30일</u>			
	1	업무코드		승인권자	원				업무코드		승인권자			
L.	결	주발영자	검토	팀장	장	검토	법	결	7121	검토	송인			
발 명	재	4.		3/2	관 리		제 특	재	2.4	YASA	T.			
	직위/성명	사원/박정희	1	차장/정성원	. 자	1	헌	직위/성명	10000	रिट राज्य	7			
실	일 자	11/30	/	11/30	된	반리번호	부	일 자	, ,					
	보존년함		0, 1,2,3,5, 10,	영구				보존년한	1.3.5, 10. 열 구	보안동급	1,2,3 대외비			
	사내		보상기준											
	발명:	의 명칭	HAMS-5 si	witched f	Router 간	OII ENLA,	IFCA署	통한 IPI	Packet ?	전송 시험	기능			
발	발명	의 개요	정상적 2. 시스템 3. 시스템	. HAMS-5 switched router를 몽한 ENLA, IFCA간 데이터 전송,수신 기능이 정상적으로 수행되는지의 기능. . 시스템간 IFCA-ENLA <-> ENLA-IFCA 연결시 IP Packet 전송기능. . 시스템간 ENLA-IFCA-SOLA <-> SOLA-IFCA-ENLA 연결시 IP Packet 전송기능.										
명 자	관련PF	ROJECT 명	HAMS-5 s	witched	router 개	발								
	실시	상 황	□ 착상	■ ຝ月	완료	□ 시험(중,완료)	ㅁ사:	🛘 사업화(준비중,실시중)					
기 재 사 항		명의 상황							선논문등	[] 旣발 기입 요명				
	선행퇴	最大は	국 내 외 국											
	출 5	원완급	■ 보·	뿅 급>(일이		급출원 유							
1	외=	국출원	□ 유	(이유:)	■ 무			
1	KEY	WORD												
	+	수 일	2007년1	到为创	대리인		UL	L		Choor	-12-0064			
图	31	내출원	图 母 5	1 □ 실		공개기보	口 출	원보류((<u> 기유:</u>)			
제		41 as C	심사청	구 ㅁ	유성	무 ?	전략특허P	ROJECT명		23				
粤	01-	7.4.0		유	□ 무		출원	등급		B				
허	지 :	국출원	심의여	부 □	유 🛭	무	*대	리인 특허	명세서적	학성 참조/	나항*			
부	출	□ 개별=] PCT 含:	린 0	사무소 지	체 국내출	원 10	특허팀검토	후 국내출원			
101	원 16	순위		5순위			국내외 동	시출원			, ,			
재	₹ 25	순위		6순위		검	oK							
사	1 -	순위		7순위	· · · · · · · · · · · · · · · · · · ·	토	- :			٠.				
황	!	순위		8순위		의					• •			
-				1 2 2 11										
l	정병	12				견								

HY	UNDAI	SYSCOMM
	< 발명 평	가내용 >

外秘

	AILDIV	0104011111	PL 77 100									
	< 발명 원	경가내용 >										
	구 분	내 용 .	평가점수									
		단순 조합 기술임	다 1점									
	기 술 성	약간 높은 수준을 요하는 기술임	☑ 3점									
		고도의 수준을 요하는 기술임	□ 5점									
}		이론상 실현은 가능하나, 실험계획은 없슴	□ 1점									
		테스트 하려면 관련기술의 발전이 요구됨	□ 2점									
	실현가능성	테스트중이거나 예정임	□ 3점									
		양호한 테스트 결과 얻음(자료첨부 가능)	□ 5점									
		현재 사업화 준비중 또는 실시중임	① 7점									
	- 51	개선된 효과의 수준은?	□ 3점 12 2점 □ 1점									
발	효과	(공정 단순화, Yield, Cost 등의 측면)										
길		기술공개로 타사 권리확보률 방어하는 수준임	□ 1점									
알	발명중요도	양산에 적용(예정) 가능한 발명임	12 3점									
,		반드시 필요한 독점 기술임	□ 5점									
CH		평가결과	(/ 🗸) 점									
\\ 3	주)※상기	l 발명 평가표는 반드시 실장이 직접 기재하시기 바랍니	-1다.									
2		연가능성"란에서 5점.7점에 해당된 발명은 증빙 자료기										
	# 평년가당당 단에서 3점 가검에 해당한 점당한 당당 제요가 한고개 본과 당하다. # 평가를 완료하신후 평가결과를 기입 바랍니다.											
	< 외국출원 평가내용 >											
	발명의	* 적용제품:	≠복수제품에 적용되는 경우 전부									
	적용제품	*관련기숨:	기재하시기 바라며, 향후 적용									
	현 황	★적용시기 :	제품경우 예상시정을 기재요망									
		D 절대 필요	출원희망국가									
		D 국내출원후 1년간 관망	1순위									
		미 필요 없음	2순위									
		□ 개별국출원, □ EPO출원, □ PCT출원	3순위									
		<u>기술적측면</u>	4순위									
			5순위									
	평가내용	·	6순위									
			7순위									
		77117140	명가자									
		<u>경제적측면</u>	성명:									
			직위:									
			서명:									
	ļ		1 . 4 9 .									

DOC.4-11

117	ru	VDA	I SYSCON	MA					社 外 秘
	нь		(한글) 박 정희		(Soft Ware	e) 개발	Group (네트	트웍 개발)실
	발 명 자	성명	(한문) 朴 正禧	직위 사운	사번	H26771	TEL (8040)	
	1		(영문) Park Jung H	Hee	주민듕목No				
		E-mail	mirine@hysyscomm.com =	주소 (487-70	01) 경기도 이천시	부발을 아미리	I 산 136-1	서 명	-
			(한글)		() 개발	Group ()실
	발 명 자	성명	(한문)		직위	. 사번		TEL ()
	2		(영문)		주민등록No		-		
발 명		E-mail	2	주소 (-)			서 명	
자	H)	성명	(한글)		() 개발	Group ()실
인 적	발 명 자		(한문)		직위	사번		TEL ()
사 항	3		(영문)		주민등록No		_		
		E-mail	ā	주소 (-)			서 명	
	발	성명	(한글)		() 개발	Group (-)실
	명자		(한문)		직위	사번		TEL ()
	4		(영문)		주민동륙No	ļ	<u>-</u>		
		E-mail	ž	주소 (-)			서 명	
	발		(한글)		() 개발	Group (·	')실
	발 명 자	성명	(한문)		직위	사번		TEL ()
	자 5		(영문)		주민등록No	<u> </u>	-	1	
		E-mail	ā	주소 (-)			서 명	
	발		(한글) .		() 개발	Group ()실
	명 자	성명	(한문)		직위	사번		TEL (.)
	6		(영문)		주민등록No		-	· ·	
		E-mail	Z	주소 (-)			서 명	

^{㈜1.}주소는 상세히 기재하시고, E-mail은 반드시 회사계정으로 기재하시기 바람.

^{2.} 영문기재시 Fullname을 기재하시기 바람.

H	YU	JŃ	IDA		SYSC		MI	V	Å,								С	onfidential
					mploy					_ 	ratio	n	of	Tnve	nti	on	<u> </u>	
			4	. سا	mbrol	· · ·	<i>م</i> د د		V1-	*=	. 66 62 6.	A.a.	U .	All y V.	II va		ite: Novemb	er 30. 2002
			Work Co	de		Appro			<u></u>	T	<u> </u>	T				Work		Approving
E	Approval)ru.	Primary	у	Reviewer	Autho		He le	Maintenance Team	副	Reviewer	١.	[편]	Approval		rafter	Reviewer	Authority Approved by
Invention Team	Φ	÷	Signed		-	Sign	ned	11-11	interior in the second			71	Patent Team	ΥÞΙ	Si	igned	signed DL/YOON, Hyoung Jin Security Rating T my invention of the second of the seco	signed
/entic	Positio Nam		SW/Jung I	Hec		CJ/JEO S.H.)NG,			ļ	,	-	atent	Position / Name		V/LEE, hun Mi	1	
É	Dat		Nov.27	\neg		Nov.	ı. 30	1	C	ont	trol No.	7	الطا	Date				
	Years Stora		0), 1,7	2, 3, 5, 10, Pern	nanent						1		Years in Storage	1, 3,	5, 10, P		1, 2, 3, Confidential
							ensatio	n po	olicy,	I re	equest to pr	roce	ed wi	th the filing/r	registr	ation of	my invention	and to assign
its ra	ghts for	dome	stic and inc	erns	ational registra	itions.		—		_								
	1	Title of Invent		Fur	nction to test IP	packet t	:ransmis	sior	n betv	wee	n HAMS-	5 sw	vitched	i routers by m	eans o	f ENLA	and IFCA	
tor	Function to test IP packet transmission between HAMS-5 switched routers by means of ENLA and IFCA Summary of the Invention	S-5 switched																
Name(s) of Related Projects Development of HAMS-5 switched router																		
by In	Sta	tatus o	of the	0	☐ Conception ☑ Completed Design ☐ (In, Completed) Testing ☐ (Preparing, In) Business Implementation													
ement	Public	cation	Status of	346	If checked, ple		ify the ((sch	nedulec	d) d	date of publi	licatio	ion and					
)ţat		Prior A	44		Korean							_			_			
الع	L	/Floi .	Art		Foreign		Ī	_	_	_		_			_			
	F	iling T	Term	E	Standard			-		Ī	Reason for	Urg	gent					
		uing .	erm	ים	Urgent → (With	hin	day	<u>/s)</u>		L	Filing	g		<u> </u>			· · · · · ·	
	For	reign l	Filing	<u></u>	Yes (Reason:) 🖾 No		
	V	Key W	'ord	_						_								
	Dat	te of R	Receipt		November 30, 2	2002		Age	nt		Phoenix offic	•	ent	Hyunda Syscomm I			CM2002-12-0)064
圓	Ke	orean I	Piling		Patent 🗆 Util Withhold Filing			oun	nal of	Тес	echnical Disc		ure)					
Statement by Patent Team			Ming	_	Request for Examination		□Yes	Œ	J No		t .	-	c Paten be Inve	nt Project ention			23	
ten	F0	-tan	201120		□ Ye	s C	□ No	_				Fili	ing Ra	iting			В	
Pa	FVI	reign l	Filing	_	Deliberation		ο.	Yes	,		No '		•	Remarks for	Agen	ts writin	g the specifica	tion*
ja			☐ Direct N	Vatio	nal Filing	□ EPO F	Filing		□ PCT	ΓFi	6	1		stic filing with				
ent	ies t	ls	st Priority	T		5th	Priority	$\overline{}$						stic filing after tancous Korcar				
E	1 8 1	2n	nd Priority	†		-	Priority	-				<u> </u>		OK	100.	neight	Ing	
Sta	Ing C.	 	d Priority	1			Priority	_				er's	ā					
Lee.	Designating Countries to File	4t/	th Priority	I		8th	Priority	,		_		Reviewer's	Opinion					
	Desi		Note	T								æ ,	$^{\circ}$					

	< Evaluation o	f the Invention>				
	Category	Contents		Eva	luation Grade	
		Simple technology			□ 1 point	
	Technology	Slightly higher technology			図 3 point	
		Advanced technology			☐ 5 point	
		Theoretically possible to implement, but has no plan for testing			□ 1 point	
	Possible	Developments in related technologies are required first for testing			☐ 2 point	
	Implementation	Currently testing or planning to test			☐ 3 point	
		Tested and obtained satisfactory results (Attach Documents)			☐ 5 point	
		Preparing or currently implementing into one's business			☑ 7 point	
	Effects	What is the level of improvement? (Simplification of processes, yield, cost etc.)			図2□1 point	
am		Defending the rights in disclosing the technology	,		☐ 1 point	
	Importance	Adaptable (or scheduled) for mass production		図 3 point		
tion		Absolutely necessary to obtain exclusive technology		☐ 5 point		
ven			(15)Point			
Statement by Manager of Invention Team	Note: * The Invo * Evidenc Impleme * The Eva <evaluation b="" fo<=""></evaluation>		ibility for			
by]	Status of	* Applied Product:	* For	or cases applied to multiple		
nent	products to which the	* Related Technology:	produ	oducts, list all product names. or future cases to be applied,		
tate	invention was applied	* Applied Period:		* For cases applied products, list all pro		
1922)		_		esignatio	on of Countries	
		☐ Absolutely necessary ☐ Observe for a year after filing domestically	1st P	riority		
		□ Not necessary	2nd I	Priority		
		•	3rd F	Priority		
		☐ Direct National Filing ☐ EPO Filing ☐ PCT Filing	4th F	riority		
			5th F	riority		
	Evaluation	Technological Factor	6th F	riority		
			7th F	riority		
			8th F	riority		
		Economical Factor			aluator	
			Name Positi Signa	on:		

	ř		(Korean) 박 정 회			(S/W) D	evelonme	nt Gr	oup (Net	work) Team		
	Primary Inventor					<u> </u>	1	Employe		 H26771	1		
		Name	(Chinese) 朴 正 禧			Position SW ID No. H					Tel (8040)	1	
	nary		(English) Park Jung He	е	R	lesiden	ce ID		740	320-1222	.320		
	Pri	E-mail	mirine@hysyscomm.com	Addı	ress		6-1, Ami-1 ggi-do 467	ri, Bubal-eut 7-701	, Iche	on-si,	Signature	signed	
			(Korean)			()	Developn	nent (Group () Tea	m	
		Name	(Chinese)			tion		Employed ID No.	е		Tel ()	
			(English)	:	Resi	dence l	Œ			-		%	
		E-mail		Addr	ess						Signature		
			(Korean)			()	Developn	nent (Group () Team		
	Jr.	Name	(Chinese)		Position Employee ID No.					Tel ()		
nation			(English)		Resi	dence l	(D				·	%	
form		E-mail		Addr	ress						Signature		
tor Ir			(Korean)			()	Developn	nent C	Group () Tea	m	
Inventor Information	Joint Inventor	Name	(Chinese)	·	Posi	tion		Employed ID No.	е		Tel ()	
	int L		(English)		Resi	dence l	ID .					%	
	γ	E-mail	Addr						Signature				
			(Korean)			()	Developn	nent C	Group () Tea	m	
		Name	(Chinese)		Posi	tion		Empl ID 1			Tel ()	
			(English)		Resi	dence I	D					%	
		E-mail		Addr	ess			Signature					
			(Korean)			()	Developm		Group () Tea	m	
		Name	(Chinese)		Posi	tion		Emple ID N			Tel ()	
			(English)		Resi	dence I	D				~	%	
		E-mail		Addr	ess						Signature		

 The full address and e-mail address are required.
 Write the full name in English. Note:

社外秘

발명의 명세서

1. 발명의 명칭

발명의 실질적 내용에 대해 가장 적절히 표현할수 있는 영칭을 간결하고 명확하게 기재하되 약자는 가급적 피해주시기 바람.

HAMS-5 switched router의 IFCA(Ip Forwarding Control Board Assembly)-ENLA(Ethernet Link Board Assembly) <-> ENLAEthernet Link Board Assembly)-IFCA(Ip Forwarding Control Board Assembly) 를 통한 IFCA의 ROUTE기능과 ENLA의 Enternet switching기능에 의한 IP 서비스

2. 발명의 상세한 설명

1)산업상의 이용분야

발명이 무엇에 관한 것이며,어느 기술분야에 적용되는지를 기재하고,타 기술 분야에서도 활용이 가능하면 그 기술분야도 기재하시기 바람.

- 1. 위 발명은 IP 서비스 기능을 이용한 HAMS-5간의 각 node듧 간에 Enternet 서비스플 수행.
- 2. HAMS-5기능들중에 Ethernet서비스를 할 수 있도록 Router사이에 Ethernet관련 서비스에 적용된다.
- 3. Router끼리 Ethernet으로 Path를 설정하지 않고 Atm으로 Path를 연결하여 보다 빠르고 다양한 서비스 제공이 가능하다.

2)종래기술의 설명 및 그 문제점

- *본 발명이 속하는 기술분야에서 본 발명과 연관되는 종래기술이 어떻게 실시되는지 기술적 구성이나 개요를 비교적 상세히 설명하고,그 문제를 기재하기 바람.
- *본 발명과 관련된 참고문헌이나 특허공보가 있으면 문헌명이나 공보번호醫 기재하고..그 자료를 본 명세서에 첨부하시기 바람.

종래의 기술은 ENLA 자체, 또는 IFCA 자체에 대해 기능 시험을 하는 단계였다. 자체 기능도 되지 않는 상황이었고 이와 같은 경우에 ENLA 자체내부 디바이스.

IFCA 내부 디바이스에 대한 검증만 수행한다.

이로 인해 ENLA, IFCA간에 연결되는 경로는 검증하지 못하는 제한이 있다. 그리고 실질적인 Ethernet 서비스 기능을 시험하지 못하는 제약이 있다.



社 外 秘

3)종래 문제점을 해결하기 위한 본 발명의 기술적 원리

*본 발명에서 상기와 같은 기술적 문제점을 어떻게 해결하고 있는지 그 해결책의 요지만율 기재하고, 그 상세한 설명은 다음항에 기재하기 바람.

- 1. 종래의 기술적 문제를 해결하기 위해 ENLA, IFCA간의 Atm Path 시험 경로를 구성.
- 2. IFCA. SOLA간의 Atm Path 시험 경로 구성.
- 3. MP(Main Processor)에서 네트웍에 대한 정보를 설정하여 IFCA에게 네트웍 정보를 설정.
- 4. ENLA에서 관리 하는 각 Node듈의 Mac_Address를 Table로 유지하여 Mac_Switching 기능이 되도록 설정.
- 5. IFCA에서는 ENLA, SOLA와 Atm-Path 연결 설정을 수행하고 네트워 '정보를 구성.
- 6. IFCA 의 Default Routing table을 Sola로 정하여 ATM Path를 통하여 다른 Router로 데이타를 보낼수 있도록 한다.

이를 통해 ENLA-IFCA-SOLA <-> SOLA-IFCA-ENLA 에 이르는 경로에 대한 데이터 전송 기능 수행을 수행한다.

4)본 발명의 구성 및 그 전반적인 동작설명

*본 발명은 본 발명이 속하는 기술분야 또는 연관된 기술분야에 중사하는 기술자라면 누구라도 실시할수 있을 정도로 상세하고도 정확한 표현으로 기재하시기 바람.

- IFCA(Ip Forwarding Control Board Assembly)
 - 1.1 메인 프로세서(MP)에서 Router간에 Routing정보를 주고 받을 수 있는 Path를 ENLA 가상의 네크웍 정보를 IFCA에 설정.
 - 1.2 ENLA Port에 연결되는 각 Node들의 GateWay월 설정.
 - 1.3 IFCA가 네트웍 정보를 받아 IP Routing할수 있는 서비스 준비를 하고 ENLA Port에 연결되는 각 Node들의 GateWay를 설정한다.
- 2. ENLA(Ethernet Link Board Assembly)
 - 2.1 ENLA에서는 각 node들로부터 전달되는 Source Mac_Address를 table로 관리한다.
 - 2.2 ENLA에서 관리하는 Mac_Address table은 timer를 두고 들어 오지 않는 node에 대해서는 Table에서 삭제한다.
 - 2.3 ENLA에서는 IFCA가 보내주는 Packet의 Destination Mac_Address를 보고 어느 Port로 보낼지 판단하여 해당 Mac_Address가 등록된 Port로 Packet을 보낸다.
- 3. 기본적인 동작 예.

IFCA, ENLA의 기본적인 setting이 끝났을때

- 3.1 어느 Node에서 다른 Router의 다른 network를 가진 Node와 통신하고자 한다.
- 3.2 처음에 Node에서 연결하고자 하는 Node에게 Packet을 던진다.
- 3.3 이 Packet은 Enla를 타고 Atm-Switch를 타고 IFCA로 들어 간다.
- 3.4 IFCA는 가지고 있는 Routing table을 참조 하여 어디로 보낼지휼 결정한다.
- 3.5 IFCA가 다시 ENLA로 보낸 Packet은 다른쪽 Router의 ENLA로 뜰어 간다.
- 3.6 Atm-Switch를 거쳐 다시 IFCA로 Packet이 전달되고 IFCA에서는 어디로 보낼지 결정한다.
- 3.7 Packet은 IFCA에서 ENLA로 보내게 된다.
- 3.8 ENLA에는 Packet에 있는 destination mac_address을 보고 Mac_Address Table에서. 해당 mac_address를 검색한다.
- 3.9 찾은 mac_address에 해당하는 Port로 Packet율 보내게 된다.

社外秘

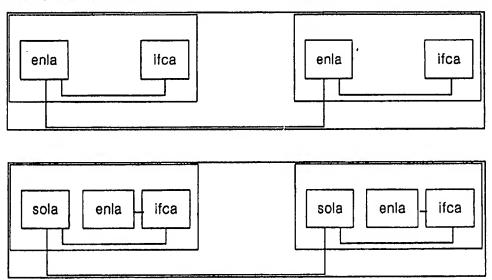
4) 항에서 계속

- 4. Router 간에 Atm Path를 통한 Ethernet 서비스.
 - 4.1 LAN Cable을 이용하여 ENLA끼리 연결하는 것이 아니다.
 - 4.2 IFCA에서 Atm Path를 Sola와 연결하여 Router간에는 Sola와 Sola로 Atm Path로 연결을 하게된다.
 - 4.3 ENLA-IFCA-SOLA <-> SOLA-IFCA-ENLA
 - 4.4 초기 보드들이 Setup이 이루어 질때 ENLA, IFCA, SOLA사이의 Atm Path는 default로 잡히게 설정.
- 5. Router간에 Lan-cable연결과 Sola를 통한 Atm Path의 차이.
 - 5.1 Sola를 통한 Atm Path가 Lan-cable을 통한 연결보다 속도가 빠르다.
 - 5.2 5.3에서 나타낸것을 보면 별차이는 없어 보인다. 하지만 ENLA를 거치지 않고 직접 SOLA를 거쳐 IFCA로 가면 중간에 delay를 줄일 수 있다.
 - 5.3
- 5.2.1 Lan-cable을 통한 연결에서 Node상의 경로.
 Node<->ENLA<->IFCA<->ENLA<->ENLA<->IFCA<->ENLA<->Node
- 5.2.2 Atm Path를 통한 연결에서 Node상의 경로.
 Node<->ENLA<->IFCA<->SOLA<->SOLA<->IFCA<->ENLA<->Node
- 6
 - 6.1 ENLA에서 4Port를 하나의 네트웍으로 구성할 수 있다.
 - 6.2 ENLA에서 2Port씩 두개의 서브 네트웍으로 구성할 수 있다.

HYUNDAI SYSCOMM

社 外 秘

- 5)본 발명의 다른 실시예
- 4)항에 기재된 본 발명의 주요 실시예 이외에 다른 실시예가 있으면 도면을 도시하고, 그 내용을 실시할 수 있을 정도로 구체화 하여 기재.
- 1. Router간에 Lan cable을 사용하지 않고 Atm Path를 통한 연결을 설정한다. 이렇게 하면 좀 더 속도면에서 향상시킬수 있다.
- 2. Router간 Atm-Path 연결.



6)본 발명의 효과

본 발명과 종래기술과의 구성 및 동작의 차이에서 오는 효과를 구체적으로 기재하고,부수적으로 발생되는 이점도 기재하나,단 기술적인 근거가 없는 막연한 경제적 효과 등은 기재 불필요.

- 1.1 ENLA는 Mac_Switching관련 기능을 수행함으로 기능의 구분및 차후 기능추가의 용이.
- 1.2 IFCA는 Routing관련 기능을 수행함으로 기능의 구분및 차후 기능추가의 용이.
- 1.3 SOLA를 통한 Atm-Path의 연결에 의한 Atm Switched Router간의 Lan-cable연결에 비해 빠른 전송서보시를 제공할수 있다.

HYUMDAI SYSCOMM

社 外 秘

3.발명의 권리보호 범위

본 항은 발명의 명세서에 기재된 내용중 권리로서 보호 받고자 하는 사항을 기재하되, 본 발명에 의해 새롭게 창작된 구성 혹은 기능만을 기재함, 특히,그중 보호를 받아야할 부분 이나, 또 다른 실시예가 있는 경우 이를 다른 항으로 명확하고,간결하게 기재하시기 바람.

- 1. ENLA, SWITCH, IFCA, SOLA 간 데이터 전송을 위한 경로 설정 및 경로 설정 해제 기능
- 2. 운용자가 원하는 네트웍정보를 입력 받아 라인카드 초기 Setup시 네트웍정보를 받아 네트웍을 구성하는 기능.
- 3. 네트웍 구성시 서브네트웍을 1개 또는 2개로 구성핥수 있는 기능.
- 4. 같은 서브네트웍인 경우 IFCA까지 가지 않고 바로 Mac_Switching할수 있는 기능.



Hyundai sys**com**m

社 外 秘

4. 도면의 간단한 설명

※도면의 도시된 내용에 따라 발명자가 의도했던 내용이 변할수 있으므로 본 발명서에 필요한 도면율 정확하게 표시하여,명세서 뒤에 반드시 첨부하시기 바람.

※ ①전자전기회로 관련 출원은 회로도, 블록도, FLOW CHART, 특성그래프 등이 첨부되어야함.

②기계관련 출원은 전체 구조도,상세 구조도,투시도 등이 첨부되어야 하며,

③공정관련 출원은 전체공정 계통도와 상세공정도 및 특성그래프 등이 첨부되어야 함.

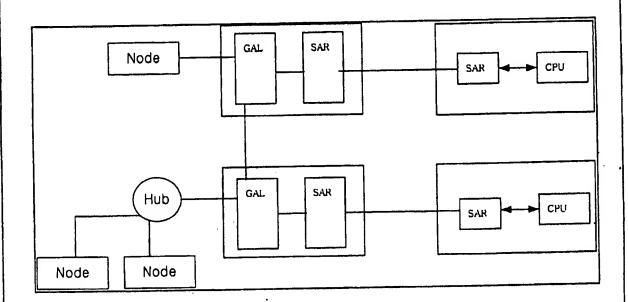
※본 항에 예를들에 "제1도는 XXX 회로도,제2도는 ...소자의 단면도…,"와 같이 기재바람.

※도면의 필요한 부분에 대해서는 그 명칭을 본 항 하단부 아래에 기재하시기 바람. (<예>1:제어부 2:감지부)

1. 밅에 있는 도식은 Router간에 ENLA 보드사이에 Lan cable을 이용하여 Router를 연결하여 운용.

2.

Node -> Galileo -> SAR(ENLA) -> SAR(IFCA) -> CPU(IFCA) -> <- Galileo <- CPU(ENLA) <- SAR(ENLA) <- SAR(IFCA) <- -> Galileo -> SAR(ENLA) -> SAR(IFCA) -> CPU(IFCA) -> Node <- Hub <- Galileo <- CPU(ENLA) <- SAR(ENLA) <- SAR(IFCA) <-



Case No.: 05-500-B

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that: My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

ATM SWITCHED ROUTER FOR TRANSMITTING IP PACKET DATA

the specification of which is attached hereto unless the following space is checked:

was filed on July 11, 2006 as United States Application Serial Number 10/585,586.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56 (including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application).

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s):

Number Country Day/Month/Year Filed
1. PCT/KR2005/000133 PCT 14 January 2005
2. 10-2004-0002981 Korea 15 January 2004

I hereby appoint the practitioners associated with the Customer Number provided below to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and I direct that all correspondence be addressed to that Customer Number.

Customer Number: 020306
Principal attorney or agent: Robert J. Irvine, III
Telephone number: 312-913-0001

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first inventor: Jung Hee PARK

Inventor's signature:

Residence:

Citizenship:

Date:

Date:

San 136-1, Ami-ri, Bubal-eub Icheon-si, Gyeonggi-do 467-860, Republic of Korea

Republic of Korea

Post Office Address: San 136-1, Ami-ri, Bubal-eub Icheon-si, Gyeonggi-do 467-860, Republic of Korea

(2)

Filing Date: July 11, 2006

ASSIGNMENT

Case No.: 05-500-B Serial No.: 10/585,586

Inventor: Jung Hee PARK

Date of Execution of Application:

In consideration of One Dollar (\$1.00) and other good and valuable considerations in hand paid, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assigns to:

UTSTARCOM KOREA LIMITED

its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, entitled:

ATM SWITCHED ROUTER FOR TRANSMITTING IP PACKET DATA

and identified as:

Case No. 05-500-B

in the offices of MCDONNELL BOEHNEN HULBERT & BERGHOFF LLP and in said application and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension of such patents, and further assigns to said assignee the priority right provided by the International Convention.

The undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorizes and requests the attorneys of record in said application to insert in this assignment the filing date and serial number of said application when officially known, and the date of execution of the application.

The undersigned warrants himself to be the owner of the entire right, title and interest in said invention or improvements and to have the right to make this assignment, and further warrants that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

For said considerations the undersigned hereby agrees, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation and substitute applications for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application, and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations the undersigned authorizes said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure is proper and further agrees, upon the request of said assignee, its successors and assigns, to cooperate to the best of the



ability of the undersigned with said assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all other acts necessary to obtain, maintain and enforce said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in the assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignee, its successors and assigns, to the full end of the term for which said Letters Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

WITNESS my hand and seal this	, day of
	Jung Hee PARK
State of	
County of	
The foregoing instrument was ackn	nowledged before me this day of
, by	
	NOTARY PIRT IC

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 28 July 2005 (28.07.2005)

(10) International Publication Number WO 2005/069560 A1

(51) International Patent Classification7:

H04L 12/56

(21) International Application Number:

PCT/KR2005/000133

(22) International Filing Date: 14 January 2005 (14.01.2005)

(25) Filing Language:

Korean

(26) Publication Language:

English

(30) Priority Data: 10-2004-0002981 15 January 2004 (15.01.2004) KR

- (71) Applicant (for all designated States except US): UTSTAR-COM KOREA LIMITED [KR/KR]; San 136-1, Ami-ri, Bubal-eub Icheon-si, Kyongki-do467-701 (KR).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): PARK, Jung Hee [KR/KR]; San 136-1, Ami-ri, Bubal-eub Icheon-si, Gyeonggi-do467-860 (KR).
- (74) Agent: YOON, Jee Hong; Hannuri Bldg. 219 Naejadong, Chongno-gu, Seoul 110-053 (KR).

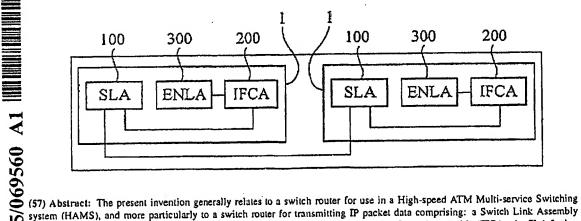
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL. AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK. DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH. PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazene.

(54) Title: ATM SWITCHED ROUTER FOR TRANSMITTING IP PACKET DATA



system (HAMS), and more particularly to a switch router for transmitting IP packet data comprising: a Switch Link Assembly (SLA) for switching ATM packet data inputted from a higher block to an IP Forwarding Control Assembly (IFCA), the SLA further SLA) for switching ALM packet data inputted from the IFCA to the higher block; an ITCA for routing and being operative to switch the ATM packet data inputted from the IFCA further being operative to route the ATM packet data inputted from the SLA to an EtherNet Link board Assembly (ENLA), the IFCA further being operative to route the ATM packet data inputted from the IFCA to an Ethernet data inputted from the IFCA to an Ethernet data inputted data and transmitting the Ethernet data to the higher block, the ENLA further being operative to convert the Ethernet data inputted from the higher block to a local ATM packet data and output the local ATM packet data to the IFCA.

5

10

15

20

25

30

35

ATM SWITCHED ROUTER FOR TRANSMITTING IP PACKET DATA

TECHNICAL FIELD

The present invention generally relates to a switch router for use in a High-speed ATM Multi-service Switching system (HAMS), and more particularly to a switch router for use in HAMS, wherein the constituents of the switch router are connected through ATM paths and the transmission of IP packet data is enabled.

BACKGROUND ART

Fig. 1 is a functional block diagram showing the configuration of the conventional switch router for use in the HAMS. Referring to Fig. 1, the conventional switch router comprises EtherNet Link board Assembly (ENLA) 1 and IP Forwarding Control Assembly (IFCA) 2. However, the technical level of the conventional switch router remained at the stage of merely testing the functions of ENLA 1 and IFCA 2. In addition, ENLA 1 and IFCA 2 failed to function completely and in such case, only the devices within ENLA 1 and IFCA 2 could be verified.

This limited the verification of the path between ENLA 1 and IFCA 2. Thus, the testing of the substantial Ethernet service function was restricted.

Fig. 2 is a functional block diagram showing the detailed configuration of the conventional switch router for use in HAMS. Referring to Fig. 2, the conventional switch router comprises ENLA 1 for switching Ethernet data and IFCA 2 for routing. ENLA 1 comprises switching hub 11 and Segmentation and Reassembly device (SAR) 12, while IFCA 2 comprises SAR 21 and CPU 22. In this switch router, LAN cable is utilized to couple the constituents.

As shown in Fig. 2, the Ethernet data is inputted to switching hub 11 in ENLA 1 via the node. It is then transmitted to SAR 21 in IFCA 2 via SAR 12. The Ethernet data is then routed by CPU 22 in IFCA 2 and transmitted back to SAR 12 in ENLA 1 by SAR 21.

Then, the Ethernet data is transmitted to the other switching hub 11 in the other ENLA 1 through SAR 12 and switching hub 11 in ENLA 1. The Ethernet data is then transmitted to the other CPU 22 via the other SAR 21 in the other IFCA 2. Meanwhile, regarding the communication within ENLA 1, ENLA 1 is capable of converting the Ethernet data into a local Asynchronous Transfer Mode (ATM) packet data.

The Ethernet data is then routed by the other CPU 22 in the other IFCA 2

WO 2005/069560 PCT/KR2005/000133

and transmitted back to the other SAR 12 in the other ENLA 1 via the other SAR 21. The other SAR 12 in the other ENLA 1 then transmits the inputted Ethernet data to the node coupled to the other switching hub 11.

However, in the conventional switch router, the communication is established by transmitting and receiving Ethernet data only. Therefore, the communication speed should be low and the communication with ATM equipment is impossible.

DISCLOSURE OF THE INVENTION

5

10

15

20

25

30

35

Therefore, the object of the present invention is to solve the above problems. In particular, the object of the present invention is to provide a switch router for use in HAMS, which couples the constituents through ATM paths and enables the transmission of IP packet data. This provides a faster communication service compared to the conventional switch router.

In order to achieve the above objects, the present invention provides a switch router for transmitting IP packet data comprising:

an IFCA for routing the ATM packet data inputted from the SLA to an EtherNet Link board Assembly (ENLA), the IFCA further being operative to route the ATM packet data inputted from the ENLA to the SLA; and

an ENLA for converting the ATM packet data routed from the IFCA to an Ethernet data and transmitting the Ethernet data to the higher block, the ENLA further being operative to convert the Ethernet data inputted from the higher block to a local ATM packet data and outputting the local ATM packet data to the IFCA.

Further, the present invention provides a switch router for transmitting IP packet data, wherein the SLA, the IFCA and the ENLA are connected by fiber optic cable for use in ATM communication.

BRIEF DESCRIPTION OF DRAWINGS

Fig. 1 is a functional block diagram showing the configuration of the conventional switch router for use in HAMS.

Fig. 2 is a functional block diagram showing the detailed configuration of the conventional switch router for use in HAMS.

Fig. 3 is a functional block diagram showing the detailed configuration of the switch router for use in HAMS, which enables the transmission of IP packet data, according to one embodiment of the present invention.

WO 2005/069560 PCT/KR2005/000133

BEST MODE FOR CARRYING OUT THE INVENTION

5

10

15

20

25

30

35

Hereinafter, a switch router according to one embodiment of the present invention will be described in detail with reference to the accompanying drawing.

Fig. 3 is a functional block diagram of the switch router for use in HAMS, which enables the transmission of IP packet data, according to one embodiment of the present invention. The switch router comprises Switch Link board Assembly (SLA) 100, IP Forwarding Control Assembly (IFCA) 200, and EtherNet Link board Assembly (ENLA) 300.

SLA 100 switches ATM packet data inputted from higher block 1 to IFCA 200. SLA 100 also switches the ATM packet data inputted from IFCA 200 to higher block 1.

IFCA 200 routes the ATM packet data inputted from SLA 100 to ENLA 300. IFCA 200 also routes the ATM packet data inputted from ENLA 300 to SLA 100.

ENLA 300 converts the ATM packet data routed from IFCA 200 to an Ethernet data and transmits the Ethernet data to higher block 1. ENLA 300 also converts the Ethernet data inputted from higher block 1 to a local ATM packet data and transmits the local ATM packet data to IFCA 200. Further, ENLA 300 manages the source MAC address, which is transferred form each higher block, as a table, and transmits the packet data to the packet's destination MAC address sent from IFCA 200.

The operations of the switch router for use in HAMS, which has the constitutions described above, will now be described with reference to Fig. 3.

The communication between some higher block (node) 1 and another higher block (node) 1 having network of another switch router will be described.

First, when the Ethernet data is inputted to ENLA 300 from higher block (node) 1, ENLA 300 converts the Ethernet data inputted from higher block (node) 1 to the local ATM packet data and transmits the local ATM packet data to IFCA 200. The ENLA 300 comprises a switching hub that may be connected to higher block (node) 1, a SAR that serves as a vocoder/devocoder, and a CPU that performs MAC switching. Therefore, the Ethernet data inputted from higher block (node) 1 is received by the switching hub, converted to the ATM packet data by the SAR, and then MAC switched to IFCA 200 by the CPU.

Then, IFCA 200 determines the head information of the ATM packet data inputted from ENLA 300 and transmits the ATM packet data to SLA 100. SLA 100 may be connected to a number of SLAs through a hub, and IFCA 200 determines the destination of the ATM packet data, which is outputted from SLA 100.

WO 2005/069560 PCT/KR2005/000133

SLA 100 then transmits the ATM packet data to the other SLA 100. When communicating with higher block (node) 1, which processes the ATM packet data, SLA 100 is connected through the other SLA 100.

The other SLA 100 then transmits the inputted ATM packet data to the other IFCA 200. Then, the other IFCA 200 determines the head information of the inputted ATM packet data and routes the ATM packet data to the other ENLA 300. Accordingly, the other ENLA 300 converts the inputted ATM packet data to the Ethernet data and MAC switches the Ethernet data to the other higher block (node) 1.

The switch router of the present invention, which enables the transmission of IP packet data, provides a faster communication service compared to the conventional switch router, where LAN cable is used for connection. Also, the invention implements the controls for Ethernet data and ATM packet data independently to thereby facilitate adding additional functions.

The present invention is described with reference to the preferred embodiment and the drawing, but the description is not intended to limit the present invention to the form disclosed herein. It should also be understood that a person skilled in the art is capable of using a variety of modifications and other embodiments equal to the present invention. Therefore, only the appended claims are intended to limit the present invention.

20

5

10

15

25

INDUSTRIAL APPLICABILITY

The switch router of the present invention enables the transmission of IP packet data and provides a faster communication service compared to the conventional switch router, where LAN cable is used for connection. Also, the invention implements the controls for Ethernet data and ATM packet data independently to thereby facilitate adding additional functions.

15

CLAIMS

- 1. A switch router for transmitting IP packet data, comprising:
- a Switch Link board Assembly (SLA) for switching an ATM packet data inputted from a higher block to an IP Forwarding Control Assembly (IFCA), the SLA further being operative to switch the ATM packet data inputted from the IFCA to the higher block;
- an IFCA for routing the ATM packet data inputted from the SLA to an

 EtherNet Link board Assembly (ENLA), the IFCA further being operative to route
 the ATM packet data inputted from the ENLA to the SLA; and
 - an ENLA for converting the ATM packet data routed from the IFCA to an Ethernet data and transmitting the Ethernet data to the higher block, the ENLA further being operative to convert the Ethernet data inputted from the higher block to a local ATM packet data and outputting the local ATM packet data to the IFCA.
 - 2. The switch router as claimed in claim 1, wherein the SLA, the IFCA and the ENLA are connected by fiber optic cable for use in ATM communication.

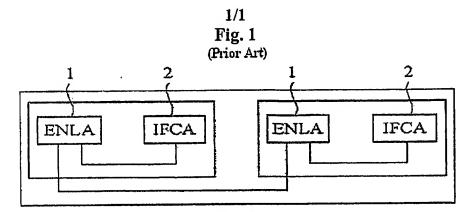


Fig. 2 (Prior Art)

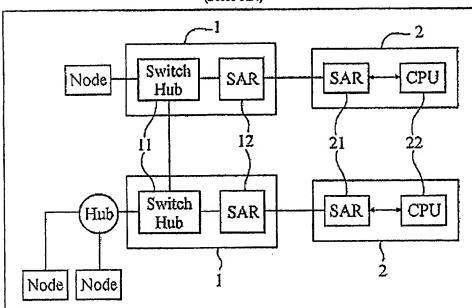


Fig. 3

100 300 200 100 300 200

SLA ENLA-IFCA SLA ENLA-IFCA

zjwlim (Ji-Won Lim)

보낸 사람:

Mail Delivery System [MAILER-DAEMON@mailex01.paran.com]

보낸 날짜:

2007년 2월 28일 수요일 오후 6:29

받는 사람:

zjwlim (Ji-Won Llm)

제목:

Delivery Status Notification (Failure)

점부 파일:

ATT648221.txt; [박정희님] 김.장법률사무소입니다. (FE251546)



(305 B)

률사무소립니다. (The following message to <mirine0320@paran.com> was undeliverable.

The reason for the problem:

5.1.0 - Unknown address error 554-'Transaction failed. '

[Translation]

From: Mail Delivery System [MAILER-DAEMON@mailex01.paran.com]

Date: February 28, 2007 6:29 PM

To: zjwlim (Ji-Won Lim)

Subject: Delivery Status Notification (Failure)

Attachment(s): ATT648221.txt

[To. Mr. Jung Hee PARK] An announcement from Law offices of Kim &

Chang (FE251546)

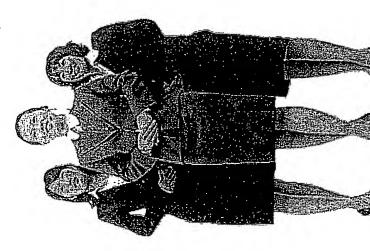
The following message to <mirine0320@paran.com> was undeliverable. The reason for the problem: 5.1.0 – Unknown address error 554-'Transaction failed.'

EXHIBIT 5



Korea Information Service

Seventy years of the directory Assistance Service will care on as the better public secretary



KOIS Company Info





KOIS Company Overview



Vision

KOIS Product Info

Sel
Assistance :
Directory
Priority
學
Service
ctory Assistance Se
Directory
4

Ad while Awaiting	為 nice114
Awaiting	:
Ad while Awaiting	♣ nice114
湿,	4

学 Contrast Mumber DB Service

KOIS InvestRelation

14.809,12.

: :

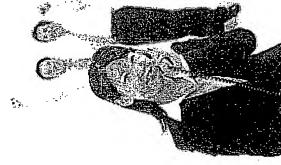




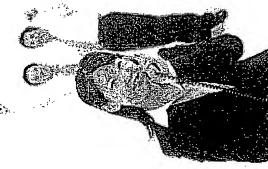
200-16 Sungin2-Dong, Jongro-Gu, Seoul, 110-522, Korea CoPYRIGHT 2004 C KOISJINC ALL BIGHTS RESERVED. WERMASTER⊛EKOIS.COJKR 📾



Korea Information Service



Product



Home / Product / nice114 / Service Info

Nice114

a Nice114 Info

Service Overview

The KT 114 phone number voice assistance service is provided through wired/wireless internet whereby phone numbers and map information can be obtained by entering business names, business categories, names of people, or the keyword of services, and is the nation's best regional portal internet service providing useful everyday life information.



친화번호와 제도가 한눈에 MICETIA, CO, KR

- Website Address : www.nice114.co.kr

Service Types

Phone Number Precise Search

new data updated twice daily based on the nation's largest KT precision and speed of the KT phone number DBI Phone number search service. phone number DB.

one click! Integrated search service.

Integrated Search in which

nice priority information, business name information, business category information, life information numbers (080, 15xx, 700, public complaints, phone number changes) simultaneous

Precise Map

powerful nice 14 map search service

map search service providing 2D/3D maps together with shortest distance directory assistance.

various personal services provided such as schedule management, address book, memo pad, scrap book etc.

My smart service

Community Service

 only the essential information collected provision of a community area where members can directly post/obtain essential information arranged in themed categories.

A variety of everyday life information services

- zip code search & subway station search (connecting line information)
- weather information service, accommodation search & reservations
- various document forms & legal information, lost children search service
- other contents to be continuously gained and provided

Close area search service (our neighborhood selection)

 service providing everyday life information for areas of interest by the user selecting a specific area

Service Inquiry

- :: Tel | 02-2235-0385
- " Make Inquiry (Direct to Inquiry)





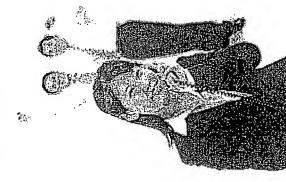
気を見せる

200–16 Sungin?-Dong, Jongro-Gu, Seaul, 110–522, Korea Copyndent 2004 c. Kolsing ril Bights reserved. Wednaster-Rekols.cok'r 📾





Korea Information Service **Product**



Home / Product / Direct Assistance / Basic Service

Directory Assistance Service

Basic Service

Service Overview

A service which searches and provides phone numbers when customers dial '114' and request the phone number of a subscriber with a specific category or business name (or person's name).

the How to use

" Standard Phone

" Public Pay Phone

Dial '114' or 'Area Code + 114'

After inserting 100 won, dial '114' or 'Area Code + 114'

Dial 'Area Code + 114' " Cellular Phone & PCS

* For quick and precise directory assistance service, please state the correct business name (or person's name) and address (the location).

e Charges

Charges for Use

\120/number provided

Standard time Premium time

No call charges

Particulars

\140/number provided

No call charges

weekdays: 09:00 ~ 18:00, Saturday: 09:00 ~ 13:00 " Standard time

weekdays: $00:00 \sim 09:00$, $18:00 \sim 24:00$ " Premium time

Saturdays: $00:00 \sim 09:00$, $13:00 \sim 24:00$

Public Holidays: 00:00 ~ 24:00





DESCRIPTION OF THE PROPERTY OF

200-16 Sungin2-Dorg. Jongto-Gu, Seaul, 110-\$22, Karea copyright 2004 C. Kaisling all rights reserved. Werhaster@ekais.co.kr 📾

EXHIBIT 6

zjwlim (Ji-Won Lim)

보낸 사람: zjwlim (Ji-Won Llm)

보낸 날짜: 2007년 5월 17일 목요일 오후 5:12

받는 사람: 'goinha@hanmail.net'; 'mirine0320@paran.com'

참조: jykim1 (Joo-Young Kim)

제목: [박정희님] 김.장법률사무소입니다. (FE251546)

점부 파일: FE251546-박정희-서명서류.pdf

수 신: 박정희님

경기도 이천시 부발읍 아미리 산 136-1 (우.467-860)

제 목: 미국 특허 출원 제 10/585,586 호

당소 정리 번호 : FE251546

박정희 선생님,

여러차례 서신을 송부해드렸는데도 본건과 관련하여 아무런 의사표현이 없으셔서 다시 한번 연락드립니다.

귀하의 발명에 대해 특허를 받을 수 있는 권리는 유티스타콤에 있습니다. 유티스타콤은 귀하의 발명에 대해 해외 출원을 진행 중에 있습니다만, 유럽, 중국, 일본 등과는 달리 미국은 발명자의 서명 서류를 필요로 하고 있습니다. 이러한 서류의 제출은 발명자가 협조하지 않으면 불가능하게 되겠지만 이 경우에는 발명자가 협조하지 않는다는 것을 증명할 수 있는 관련 서류로 갈음함으로써 꼭 제출하지 않아도 무방합니다.

서명을 하고 안하고의 독실관계에 있어 특별한 사항은 없습니다. 다만 귀하께서는 이전소속 직장에서 소정의 보상을 받고 직무발명 양도서에 서명함으로써 특허룝 받을 권리를 타인에게 넘겼기 때문에 특허룝 받을 권리의 최종 승계자가 특허룝 받을 수 있도록 신의 성실로 협조하여야할 의무가 있다고 추정할 수 있습니다. 또한가지 는 서명을 하겠다는 취지와 함께 서명과 관련된 시간 소비등에 대한 보상을 요구하는 경우 유티스타컴 미국 본 사에서 소정액(\$250;변화가 있을 수 있음)을 지급한다는 결정이 있었습니다.

상기 설명을 참조하시고 서명 협조에 대한 귀하의 의견을 본 메일에 회신으로 통지해주시기 바랍니다. 서명을 해주실 경우 첨부한 서명서류의 지정된 위치에 서명하여 당 사무소 착불로 택배/퀵서비스편으로 서류 원본을 보내주시기 바랍니다. 서명을 안하겠다고 하시는 경우에는 미국 특허청에 이 사실을 증거자료와 함께 제출하 도록 하겠습니다.

기타 궁금하신 사항은 아래 담당자에게 연락주시기 바랍니다.

김.장법률사무소 변리사 김주영 (전화 02-2122-3561) 과장 임지원 (전화 02-2122-3838)

첨부물있음: 서명서류(발명자선언서 및 양도증)

ps. 사인한 원본서류 발송시, 아래 양식도 채워서 함께 보내주시기 바랍니다.

사례급 (Courtesy Disbursement)		
0[昌 (Name)	박정희 (Jung Hee PARK)	
미국 특허 출원 번호 (U.S. Serial No.)	10/585,586	
사무소 관리 번호 (K&C Ref. MBHB Ref.)	FE251546/ 05-500-B	
본인명의은행정보 (Bank Info.) 거래은행 (Bank Name) 계좌번호 (Account No.)		
등기우편수령가능주소 (Address for Correspondence)		

DOC.5-2

전화번호 (Telephone No.)		
금액 (Amount)	US\$250	
자필서명 (Acceptance Signature)		
서명일자 (Date)		

Ji-Won Lim

zjwlim@ip.kimchang.com 직용: (02) 2122 3838

金·張 法律事務所

서울시 종로구 신문로 1가 226 홍국생명빌딩 9층 우편번호 110-786

전화: (02) 764-8855 / (02) 2122-3900 (대표)

팩스: (02) 741-0328 / (02) 745-5954 / (02) 763-7434

위 전자우편에 포함된 정보는 위에 기재된 수신인만을 위해 발송되는 것으로서 보안을 유지해야 하는 정보 및 법률상 또는 다른 사유로 인하여 공개가 금지된 정보가 들어 있을 수 있습니다. 귀하가 이 전자우편의 지정 수 신인이 아니면 이를 무단으로 보유, 전송, 배포할 수 없으며, 일부의 내용이라도 공개, 복사해서는 안됩니다. 그 러므로, 잘못 수신된 경우에는 즉시 전화 또는 전자우편 주소(all@ip.kimchang.com)로 연락하여 주시고, 원본 및 사본과 그에 따른 첨부 문서를 모두 삭제하여 주시기 바랍니다. [E-mail to the inventor Jung Hee PARK from K&C staff, Jiwon Lim]

From: zjwlim (Ji-Won Lim) Date: May 17, 2007 5:12 PM

To: goinha@hanmail.net; mirine0320@paran.com

Cc: jykim1 (Joo-Young Kim)

Subject: [To. Mr. Jung Hee PARK] An announcement from Law offices of Kim &

Chang (FE251546)

Attachment(s): FE251546-PJH -SIGNATURE DOCUMENTS. PDF

To: Mr. Jung Hee PARK

San 136-1, Ami-ri, Bubal-eub, Icheon-si, Gyeonggi-do 467-860, Republic of Korea

Re: U.S. Patent Application No. 10/585,586 (Our Ref. FE251546)

Dear Mr. Park,

This is a reminder with regard to the subject case.

As I explained several times before, the right to receive a patent was transferred to UTStarcom Korea Limited. With respect to this invention, a Korean patent application was filed and its counterpart foreign applications were filed by UTStarcom. Unlike other countries such as Europe, China, and Japan, the U.S. Patent law requires documents signed by the inventors. Therefore, if the inventor is uncooperative, the assignee cannot submit the required documents. However, the assignee can substitute the required documents with due diligence documents evidencing the inventor's noncooperation.

Signing of the documents we presented to you results in no loss or no gain to you. It is our understanding that you had assigned your right to your former employer company by signing on the Inventor's Declaration and Assignment. Thus, you are expected to duly cooperate with the right owner or its successor.

For your information, recently we were instructed to pay (currently USD 250) as courtesy disbursement for the inventors assistances in providing signatures.

Please consider the foregoing and let us know via return e-mail whether you wish to cooperate in this matter or not. If you decide to cooperate, please return the signed documents together with the below form. If not, we will incorporate your decision in a due diligence document, which will be filed with the U.S. Patent and Trademark Office.

If you have any other questions, please do not hesitate to contact me.

Law Offices of Kim & Chang Patent Attorney Joo-Young Kim (Tel. 02-2122-3561) Assistant Manager Jiwon Lim (Tel. 02-2122-3838)

ps. Please also provide us with your bank information and signature in the below form.

사 례 금			
(C	(Courtesy Disbursement)		
이묨	박정희		
(Name)	(Jung Hee Park)		
미국 특허 출원 번호	10/505 500		
(U.S. Serial No.)	10/585,586		
사무소 관리 번호	FE251546/ 05-500-B		
(K&C Ref. MBHB Ref.)	FE231340/ U3-300-B		
본인명의온행정보 (Bank Info.)			
거래은행 (Bank Name)			
계좌번호 (Account No.)			
둥기우편수령가능주소			
(Address for Correspondence)	·		
전화번호 (Telephone No.)			
금액 (Amount)	USD250		
자필서명 (Acceptance			
Signature)			
서명일자 (Date)			

Case No.: 05-500-B

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that: My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

ATM SWITCHED ROUTER FOR TRANSMITTING IP PACKET DATA

the sp	ecification	of which is	attached 1	hereto unless	the fo	llowing s	space is	checked:
--------	-------------	-------------	------------	---------------	--------	-----------	----------	----------

was filed on July 11, 2006 as United States Application Serial Number 10/585,586.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56 (including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application).

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s):

	Number	Country	Day/Month/Year Filed
1.	PCT/KR2005/000133	PCT	14 January 2005
2.	10-2004-0002981	Korea	15 January 2004

I hereby appoint the practitioners associated with the Customer Number provided below to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and I direct that all correspondence be addressed to that Customer Number.

Customer Number: 020306	
Principal attorney or agent:	Robert J. Irvine, III
Telephone number: 312-913-0001	

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first inventor: Jung Hee PARK				
Inventor's signature:	Date:			
Residence:	San 136-1, Ami-ri, Bubal-eub Icheon-si, Gyeonggi-do 467-860, Republic of Korea			
Citizenship:	Republic of Korea			
Post Office Address:	San 136-1, Ami-ri, Bubal-eub Icheon-si, Gyeonggi-do 467-860, Republic of Korea			



ASSIGNMENT

Case No.: 05-500-B

Serial No.: 10/585,586

Inventor: Jung Hee PARK

Date of Execution of Application:

Filing Date: July 11, 2006

In consideration of One Dollar (\$1.00) and other good and valuable considerations in hand paid, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assigns to:

UTSTARCOM KOREA LIMITED

its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, entitled:

ATM SWITCHED ROUTER FOR TRANSMITTING IP PACKET DATA

and identified as:

Case No. 05-500-B

in the offices of MCDONNELL BOEHNEN HULBERT & BERGHOFF LLP and in said application and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension of such patents, and further assigns to said assignee the priority right provided by the International Convention.

The undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorizes and requests the attorneys of record in said application to insert in this assignment the filing date and serial number of said application when officially known, and the date of execution of the application.

The undersigned warrants himself to be the owner of the entire right, title and interest in said invention or improvements and to have the right to make this assignment, and further warrants that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

For said considerations the undersigned hereby agrees, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation and substitute applications for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application, and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations the undersigned authorizes said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure is proper and further agrees, upon the request of said assignee, its successors and assigns, to cooperate to the best of the



ability of the undersigned with said assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all other acts necessary to obtain, maintain and enforce said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in the assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignee, its successors and assigns, to the full end of the term for which said Letters Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

WITNESS my hand and seal this	day of
	Jung Hee PARK
State of	
County of	
The foregoing instrument was ack	nowledged before me this day of
, by	
	NOTARY PURITO

zjwlim (Ji-Won Lim)

보낸 사람:

Mail Delivery System [MAILER-DAEMON@mailex03.paran.com]

보낸 날짜:

2007년 5월 17일 목요일 오후 5:33

받는 사람:

zjwlim (Ji-Won Lim)

제목:

Delivery Status Notification (Failure)

천부 파일:

ATT301889.txt; [박정희님] 김.장법률사무소입니다. (FE251546)





ATT301889.txt (414 B)

■사무소합니다. (The following message to <mirine0320@paran.com> was undeliverable.

The reason for the problem:

5.1.0 - Unknown address error 554-'Transaction failed.'

[Translation]

From: Mail Delivery System [MAILER-DAEMON@mailex01.paran.com]

Date: May 17, 2007 5:33 PM To: zjwlim (Ji-Won Lim)

Subject: Delivery Status Notification (Failure)

Attachment(s): ATT301889.txt

[To. Mr. Jung Hee PARK] An announcement from Law offices of Kim &

Chang (FE251546)

The following message to <mirine0320@paran.com> was undeliverable. The reason for the problem: 5.1.0 – Unknown address error 554-'Transaction failed.'